Letters of inquiry about Maharishi University of Management should be addressed to:

Office of Admissions  
Maharishi University of Management  
Fairfield, Iowa 52557  

Phone: (641) 472-1110 • Fax: (641) 472-1179 • E-mail: admissions@mum.edu

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Maharishi University of Management believes that all educational and employment decisions should be based on an individual’s performance and qualification and not on irrelevant factors such as personal characteristics or happenstance of birth unrelated to academic or job performance. The University considers irrelevant factors regarding sex, age, race, religion, color, national or ethnic origin, disability, veteran’s status, sexual orientation, and gender identity.

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Anyone who has any concerns or inquiries regarding this policy should feel free to contact the MUM Title IX Officer, Maharishi University of Management, Fairfield, Iowa, 52557, (641) 209-1879, ext. 117, croesler@mum.edu or the U.S. Department of Education Office for Civil Rights Lyndon Baines Johnson Department of Education Bldg. 400 Maryland Avenue, SW Washington, DC 20202-1100 Telephone: 800-421-3481 FAX: 202-453-6012; TDD: 877-521-2172 Email: OCR@ed.gov.

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curricula, courses, and other matters contained in this Catalog is subject to change at any time during the period for which the Catalog is in effect. The Registrar’s Office can be contacted at any time for current information on these matters.

Maharishi University of Management makes available to the public, upon request, all consumer information required by the Office of Education Rules and Regulations. Consumer information about the University includes, but is not limited to, the following: academic programs, educational costs, financial aid, academic progress requirements, student retention rates, and crime statistics. This information is available from the Registrar’s Office, Enrollment Center, Dreier Building (mailing address: Fairfield, Iowa 52557).

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Message from the Founder

MAHARISHI MAHESH YOGI

“If we look into the process of gaining knowledge we find there are two sides to knowledge: the object of knowledge, that which we seek to know, and the subject of knowledge, the knower. What the present system of education provides is knowledge of the object; what it misses is knowledge of the subject, knowledge of the knower in the knower’s infinite capacity. When the knower is ignorant about the Self, the whole structure of knowledge is as if baseless.

“Education at Maharishi University of Management enlivens in every student’s awareness the common basis of knower and known, the unified field of natural law. Every part of knowledge is connected with the whole discipline, and the whole discipline with the unified field of natural law, which students experience directly as the deepest level of their own intelligence during the practice of my Transcendental Meditation® program.

“As a result of this educational approach, students grow in the awareness that all streams of knowledge are but modes of their own intelligence. They come to feel at home with everyone and everything. Their creative genius blossoms with increasing confidence and self-sufficiency. They cease to violate natural law, and grow in the ability to accomplish anything and spontaneously to think and act free from mistakes — the fruit of all knowledge.”
INTRODUCTION TO THE UNIVERSITY

THE MISSION OF THE UNIVERSITY

Maharishi University of Management was founded in 1971 by Maharishi Mahesh Yogi to unfold in every student the full potential of consciousness and thereby realize the long-sought ideal of education to create ideal citizens – graduates who can fulfill their own aspirations while promoting all good in society.

To this end the University has pioneered a unique system of higher education that systematically cultures the students’ full alertness and creative intelligence as the basis of profound and fruitful learning. Maharishi University of Management integrates knowledge of the traditional disciplines with knowledge and scientifically verified technologies of consciousness, primarily the Transcendental Meditation® program. Through this integrated approach, the University develops the students’ ability to manage their lives successfully, to grow steadily in health, happiness, and wisdom, and to achieve both personal and professional satisfaction.

The University’s unique educational programs are designed to fulfill a commitment to four broad areas of responsibility:

- Holistic development of students: consciousness, mind, and body
- Academic excellence
- Original research that extends the frontiers of knowledge
- Improving the quality of life of the individual, the nation, and the world.
PURPOSES AND OUTCOMES

We meet our goals of educational excellence and improving the quality of life by helping students achieve specific outcomes during their academic careers. Three of these outcomes are the basis of institutional assessment.

Self-development

Development of consciousness means developing the innermost nature of the individual. Consciousness-Based education systematically develops students’ intelligence, nourishing and unfolding all aspects of life simultaneously — mind, body, behavior, and environment. Students grow in personal fulfillment and professional success and bring increasing fulfillment to society.

Our Consciousness-Based approach has been found to produce increased intelligence and creativity; improved health (mental, physical, and social); increased field independence and moral maturity; increased problem-solving ability; improved speaking and writing ability; greater self-actualization, self-esteem, personal identity, emotional health, and ego development; increased neurophysiological integration; and the experience of greater inner wakefulness.

Ability to integrate new knowledge effectively in any field and profession

Our unique approach to education enables students to feel increasingly comfortable with all fields of knowledge — to recognize the interconnections among fields of knowledge and the connection between knowledge and themselves. We also expect that all students will continue developing their intellectual skills and capacities, develop creative and critical thinking abilities, understand multiple modes of inquiry and approaches to knowledge, and cultivate societal, civic, and global knowledge.

Scholarship and service

We are also committed to developing new knowledge through research and to disseminating that knowledge through presentation and publication of our scholarly work. We will also assist other educational organizations, nationally and internationally, whose purposes are consistent with our mission. The primary responsibility for scholarship and service lies with our faculty. Their progress is assessed in terms of their teaching ability, creation of curricula and instructional materials, and contributions to developing and disseminating new knowledge.

The programs of the Business Administration department are accredited by the International Accrediting Council for Business Education (P.O. Box 25217, Overland Park, KS 66225, (913-383-6205): covering the PhD in Management, Master of Business Administration, and Bachelor of Arts in Management.

Academic programs include PhD, master’s, and bachelor’s programs in a range of disciplines, including PhD programs in Management, Physiology, and Maharishi Vedic Science\textsuperscript{SM}. Students come from almost every state and have come from more than 130 countries around the world, representing nearly every culture, race, and religion. The student body is a world family, living in peace and harmony, excited about knowledge, openhearted and friendly, and dedicated to making the world a better place.

The faculty includes internationally recognized scholars and researchers with degrees from such universities as Oxford, Harvard, Stanford, and Yale.

Graduates are successful in careers in business, education, the arts, and the sciences. Many have founded their own companies or have been hired by leading corporations such as American Express, AT&T, Bell Labs, Apple, Citibank, Ford, Hewlett-Packard, IBM, Microsoft, Motorola, and Xerox.

The Maharishi University of Management campus is located in Fairfield, Iowa, 50 miles west of the Mississippi River in the central U.S. The 361-acre campus, with 1.2 million square feet of teaching, research, recreational, and living space, is situated on gently rolling hills.

Maharishi University of Management is respected for its excellence in education, its healthy and harmonious environment, and its high quality of life. It is unique in adding to traditional education systematic programs to develop the full potential of the student. Our students make rapid progress, not only in academic achievement, but also in developing their creativity, intelligence, and good health and laying the foundation for personal fulfillment and professional success.
ACADEMIC PROGRAMS

GENERAL EDUCATION

General Education refers to those courses the faculty have deemed important enough to require of all students. It is generally advisable to complete the General Education requirements before entering the major. At Maharishi University of Management the General Education program covers the knowledge and skills students need for professional success, personal fulfillment, and responsible citizenship in a rapidly changing world. It includes a thorough and systematic understanding of consciousness because human consciousness lies at the basis of all fields of study.

There are four fundamental components to the General Education curriculum at the university:

• Essential Learning Outcomes woven into the curriculum
• 34 credits of required coursework (some of which may be waived through transfer credits)
• A Development of Consciousness program embedded in the curriculum
• A Forest Academy program that begins every semester with the study of interdisciplinary themes from the Science and Technology of Consciousness together with deep rest and rejuvenation.

These components are described in more detail below.

ESSENTIAL LEARNING OUTCOMES

Nine Essential Learning Outcomes are developed through all the required courses in the General Education Program and in subsequent courses in a student’s major. Students have multiple opportunities to exercise and strengthen these skills throughout their University career, building the foundation for a successful professional and personal life.

• Development of consciousness
• Health
• Holistic thinking
• Creativity
• Critical thinking
• Communication
• Problem solving
• Teamwork and leadership
• Local and global citizenship

DEVELOPMENT OF CONSCIOUSNESS

Graduates are able to . . .
Display improvements in perception, thinking, feeling, and overall growth of consciousness.
These improvements are verified through both subjective experience and objective measures — through self-reported experiences in and outside of Transcendental Meditation practice, measures on the Brain Integration Progress Report, and behavioral indicators of mental and physical wellness.

HEALTH

Graduates are able to . . .
Display a healthy and optimal quality of life that allows them to get through their daily activities without undue fatigue or physical stress.
This outcome is measured through a standardized assessment developed by the Centers For Disease Control.
• Assessment: Behavioral Risk Factor Surveillance System (BRFSS)

HOLISTIC THINKING

Graduates are able to . . .
Apply unifying principles within and across disciplines to synthesize ideas, integrate divergent perspectives, and understand what they have learned in light of their own consciousness.
This outcome is assessed in the Senior Project, where students reflect on their work using the integrating principles that emerged in the process.
• Assessment: American Association of Colleges and Universities (AACU) Integrative Thinking VALUE Rubric

CREATIVITY

Graduates are able to . . .
Combine or synthesize existing ideas, images, or expertise in original, imaginative ways, characterized by a high degree of innovation, divergent thinking, and risk taking.
This outcome is measured as a dimension of any in-class product that requires originality and imagination, going beyond what is given and creating something new.
• Assessment: AACU Creative Thinking VALUE Rubric

CRITICAL THINKING

Graduates are able to . . .
Evaluate their confidence in a thesis or judgment on the basis of logic, reliable evidence, ethical values, and openness to alternative assumptions and points of view.
This outcome is measured in classroom or standardized tests of critical thinking, scientific reasoning, and logical analysis; classroom debates and presentations; and research papers or other writing where students analyze a situation and argue for a position.
• Assessment: A campus-developed profile, including a 10-point rubric.

COMMUNICATION

Graduates are able to . . .
Listen to and express ideas, feelings, and information in speech, text, and other media.
This outcome is measured through classroom or standardized measures of oral presentations, in-class writing, reports, research papers, and multi-media presentations.
• Assessment: AACU: Oral Communication and Written Communication VALUE Rubrics

PROBLEM SOLVING

Graduates are able to . . .
Design and implement a strategy to answer an open-ended question or achieve a desired goal. In mathematics and the sciences this goal is often practical or knowledge-oriented, in the arts often expressive or aesthetic.
This outcome is measured through any challenge to students where there is no standard formula or protocol to be applied. It is assessed by analyzing the process students apply together with the quality of the end product.
• Assessment: AACU: Problem Solving VALUE Rubric

TEAMWORK AND LEADERSHIP

Graduates are able to . . .
Contribute to a group task while facilitating the contributions of diverse teammates in a constructive team climate.
This outcome is assessed in any group assignment where teammates evaluate each other’s contributions or where the teacher observes and rates individual contributions and group interaction.

- Assessment: AACU Teamwork VALUE Rubric

**LOCAL AND GLOBAL CITIZENSHIP**

*Graduates are able to . . .*

Act in the local arena — with a global perspective — to address world economic, cultural, social, and environmental challenges.

This outcome is assessed in any practical service or problem-solving activity or simulation where students’ thoughts and actions affect the wider world.

- Assessment: AACU Global Learning VALUE Rubric

**REQUIRED COURSES**

All students with fewer than 90 credits* must take all of the following courses in the General Education curriculum:

- **STC 108 The Science and Technology of Consciousness (STC) (6 credits).** This is the first course that all undergraduate students take upon entry to the University regardless of their major, and serves as the foundation of all other courses.

- **WTG 191 College Composition 1 (4 credits).** This course may be waived through transfer or through demonstrated competency prior to, or immediately after, enrolling at the University. Please speak with Admissions to take a competency assessment.

- **WTG 192 College Composition 2 (4 credits) or WTG 195 Writing for Professional Development (4 credits online).** These courses may be waived through transfer credits.

- **PH101 Physiology is Consciousness (4 credits).** Recommended for one’s first year of study.

- **Critical and Creative Thinking seminars (CCTS) (4 credits).** Students must select one of these seminars in their first year of study. Most of the undergraduate majors offer one of these courses, but students can use a CCTS in any subject field to satisfy this general education requirement. Students learn how to evaluate and formulate a position based on an open- and fair-minded analysis of evidence.

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* If students are able to transfer the maximum of 90 credits allowed in transfer, they need only take one of the two science courses (PH 101 or PHYS 310) and are exempted from FOR 103.
• **FOR 103 Health-Related Fitness (2 credits).** Students are encouraged to take this Forest Academy (see below for more extensive discussion of Forest Academies) in their first year.

• **College level math course (4 credits).** This requirement may be met through transfer credit. Courses that meet this requirement include various mathematics courses (MATH 153 or higher), statistics, and quantitative reasoning. For a full listing of the means of satisfying this requirement, look at “Math Requirements and Placement Policies” in the Bachelor’s Degree Requirements elsewhere in this Catalog.

• **PHYS 310 Foundations of Physics and Consciousness (4 credits).** Students are encouraged to take this required course sometime during the last two years on campus and preferably after meeting their college math requirement.

• **FOR 431 Higher States of Consciousness (2 credits).** Students are encouraged to take this Forest Academy in their final or next to last semester. It complements the knowledge and experience provided in the Science and Technology of Consciousness course.

**DEVELOPMENT OF CONSCIOUSNESS PROGRAM**

In addition to the courses above that are part of the General Education Requirements, students are expected to participate in the Development of Consciousness Program during their undergraduate or graduate career on campus or online. This program, in addition to supporting continuous development of a student’s cognitive and socio-emotional learning abilities, it also promotes holistic health and all-round happiness.

This Development of Consciousness Program begins with instruction in the Transcendental Meditation program before or shortly after their arrival on campus, as well as the twice daily practice of Transcendental Meditation. On campus the program continues with regular morning meditation done in a campus-wide group or in one’s own room, as well as an afternoon in-class group meditation that is part of every course.

Students who wish to receive additional credits may also elect to enroll in a more formal Development of Consciousness course in the Transcendental Meditation Program (DC 320) for one credit per semester, or, in the case of the Transcendental Meditation-Sidhi Course (MVS 331), for two credits per semester. For additional information about these course, see course descriptions in the Department of Development of Consciousness section of this Catalog.
FOREST ACADEMIES

The first two weeks of each semester are designed to provide opportunities for more extended practice of the Transcendental Meditation technique and, for those qualified, the TM-Sidhi program. They also are meant to create a restful, low-stress foundation for the semester. The Forest Academies provide the opportunity for to explore the application of Maharishi Vedic Science to a range of arts and sciences. See below for a complete list of topics covered in prior years. Students are required to take and pass a forest academy every semester they are enrolled.

FIRST SEMESTER LEARNING COMMUNITY OPTION

An option for first-year students during their first semester is to participate in a “learning community” – where students and faculty work together to understand the problems facing our globe and then design and present a partial solution to a local expression of these problems. The First Year Learning Community integrates classroom learning with field trips, field research, small group work, and longer projects. Along the way, students cover much of the same content as do other students in their first semester — i.e., the Science and Technology of Consciousness, writing, critical thinking, quantitative reasoning, and health-related fitness.

This learning community is the first course offering of MUM’s Global Solutions Institute, in which students explore the critical social and environmental challenges facing humanity in this century. In this particular offering, they’ll work in partnership with local organizations to help address a critical local challenge — for example, food security, purity, and economics. Working as researchers and consultants, they’ll assess local needs and create an implementable proposal for addressing the challenge. In this way, they will get a sense of how to create change wherever they are.

Students enrolled in the first semester learning community will develop the vital life skills they need for personal and career success.

GS 101A Global Solutions: Consciousness and the Challenges of the 21st Century
GS 101B Global Solutions: Consciousness and the Challenges of the 21st Century
GS 101C Global Solutions: Consciousness and the Challenges of the 21st Century

These courses are given in a continuous series of blocks as a learning community and students co-register for these courses at the same time. Students enrolling in the first of the series are expected to continue with the group for all three courses. In this learning community students will learn about all the challenges facing our world as they explore
how they personally wish to address these challenges. In the final two months student work in groups to address a local expression of the global challenges by researching, working, and/or planning a local project.

Working on their project students will develop their writing, speaking, and presentation skills. They will also exercise their creativity, problem solving, critical thinking, teamwork, and leadership, while promoting local and global citizenship, health, and development of consciousness. Rather than a traditional letter grade, students will receive a Pass/No Pass and a narrative evaluation — a letter from the faculty summarizing what they’ve achieved, as well as their strengths and areas for improvement. Students will also receive a certificate of completion. (18 credits)

These courses, taken together, cover in an integrated manner the content of the following required courses from the general education program: (1) WTG 102 Composition 2 (4 credits), (2) the Critical and Creative Thinking requirement (4 credits), and (3) FOR 103 Health-Related Fitness (2 credits). This means that in completing the Global Solutions semester, students do not have to take these courses separately. Prerequisite: A college-level composition course or demonstration of equivalent writing competence.

FOREST ACADEMY and SCIENCE AND TECHNOLOGY OF CONSCIOUSNESS

Vision of the Forest Academy Program

Forest Academies are two-week courses offered at the beginning of each semester that provide the opportunity for students to explore more deeply the principles associated with the development of their own inner intelligence—through their daily practice of the Transcendental Meditation and TM-Sidhi programs—and to understand how that intelligence can be practically applied to specific areas of life. The goal of these academies is to connect the knowledge of the rest of the curriculum with universal principles of natural law and transform it into a living and useful dimension of the students’ lives.

During most Forest Academies, students have the option to participate in a TM retreat (or World Peace Assembly for those who have completed instruction in the TM-Sidhi program). These TM retreats are periods of time (three days or more) during which students enjoy deeper and more frequent periods of meditation along with lectures and discussions that deepen their intellectual understanding of the development of consciousness. TM retreats and World Peace Assemblies also accelerate the release of deeper layers of fatigue and stress, which leads to more profound experience of pure
consciousness. After each Forest Academy students experience a new wave of freshness in body and mind, returning to their studies with an expanded awareness.

FOREST ACADEMY PROGRAM AND GRADUATION REQUIREMENTS

General University Requirement

All students are required to take a Forest Academy in each semester they are enrolled in at least 12 credits of classes.

Undergraduate Students

In their first semester, students take the Science and Technology of Consciousness course (STC 108) as a prerequisite to all subsequent course work at the University. This course takes the place of a Forest Academy in that semester. During their second semester, undergraduate students who have less than 90 transfer-in credits must complete FOR 103 Health-Related Fitness, which is a prerequisite for all other Forest Academies.

FOR 431 Higher States of Consciousness is recommended to be taken in the third semester. Thereafter, in all following semesters, students take a Forest Academy of their choice from those being offered at that time.

To graduate with a bachelor’s degree a student must successfully complete one Forest Academy for each semester enrolled full time (12 or more credits). One Forest Academy may be waived for students who are enrolled in degree programs of three or more semesters. For certificate programs, this requirement varies. Please consult the certificate program listing in this catalog for details.

Graduate Students

In their first semester, graduate students take the Science of Creative Intelligence® (FOR 500). This course is a prerequisite to all subsequent course work at the University. To graduate with a master’s or doctoral degree, a student must successfully complete one Forest Academy for each semester enrolled, including FOR 500. One elective Forest Academy may be waived for students who are enrolled in degree programs of three or more semesters.

Note: Students not in daytime graduate programs may have different Forest Academy requirements. Any deviation from the general requirement is listed with the individual program’s degree requirements.
COURSES

STC 108 Science and Technology of Consciousness
This course orients students to the University and to Consciousness-Based education. Students learn the Transcendental Meditation technique and begin to explore the theoretical foundation for higher states of consciousness available through practice of the Transcendental Meditation program. This course discusses the full range of consciousness from individual experience to a fundamental field of intelligence that underlies all of life and how this range of life is unfolded through Consciousness-Based education. As part of this course, students participate in a 3-to-4-day base camp that focuses on team building, group processes, and leadership skills. (6 credits) Note: This course is a prerequisite to all other courses at the University, though students may continue with additional courses upon appeal to the Academic Standards Committee. In this case, students must retake the course at the next available opportunity in the class schedule. (6 credits)

STC 507 Leadership Intelligence Technologies for Technical Managers
This course offers the latest, science-based approaches for living a fulfilling life, which create a blueprint for the unfolding of one’s full potential. Full potential in this discipline is the ultimate development of what we ordinarily consider to be the most valuable qualities of human life – emotional intelligence, social intelligence, moral/ethical intelligence, cultural intelligence, and generational intelligence. The process of gaining this is through the refinement and purification of mind and body. In this course you will study science-based feedback tools, people management tools (like the four-box model or 50/50 rule), coaching tools, leadership laws, relationship building tools, and Transcendental Meditation, which is the most established science-based technology to unfold full potential. (4 credits)

STC 506A Science & Technology of Consciousness
This course orients students to the University and to Consciousness-Based education. Students learn the Transcendental Meditation technique and begin to explore the theoretical foundation for higher states of consciousness available through practice of the Transcendental Meditation program. This course discusses the full range of consciousness from individual experience to a fundamental field of intelligence that underlies all of life and how this range of life is unfolded through Consciousness-Based education. As part of this course, students participate in a 3-to-4-day base camp that focuses on team building, group processes, and leadership skills. (6 credits) Note: This course is a prerequisite to all other courses at the University, though students may continue with additional courses upon appeal to the Academic Standards Committee. In
In this case, students must retake the course at the next available opportunity in the class schedule.

**STC 506B Leadership for Tech Managers**
The goal of this course is to provide students with knowledge and skills in leadership, including communication skills as preparation for future leadership roles. By the end of this course, students will understand the answers to key questions regarding effective leadership, including the following:

- Are there ‘natural-born’ leaders?
- Do you have to have charisma to lead effectively?
- What one asset is required to be a leader?
- What is the difference between managing and leading?
- What are the many ‘intelligences’ required to lead in this era?
- What is ‘management malpractice’ and how does it lead to self-sabotage?
- Knowing that feedback is essential to the leading process, how do we get over the fear of giving and receiving it?
- What is the source of 80% of the problems found in the workplace?
- Is there scientific research available to assist the organization in improving its individual and team leadership skills?

Guest speakers will include eminent entrepreneurs, computer scientists, philanthropists, academics, and other prominent leaders in society. (2 credits)

**STC 508 Science and Technology of Consciousness**
This course explores the theoretical foundation for higher states of consciousness available through practice of the Transcendental Meditation program. Students study the full range of consciousness from individual experience to a fundamental field of intelligence that underlies all of life and how this is unfolded through Consciousness-Based education. (4 credits)

**STC 508A 508B, 508C, 508D Science and Technology of Consciousness™**
This sequence of courses introduces the concepts of Consciousness-Based education on which all graduate programs at MUM are based and serves the same educational goals as STC 508. Scientific research on the benefits of the practice of the Transcendental Meditation technique complements theory from Maharishi’s Science of Creative Intelligence™. Topics include: the nature of mind and body, the qualities and development of creative intelligence, enlightenment and higher states of consciousness, and collective consciousness and the Maharishi Effect. (1–2 credits each)
STC 509 The Science and Technology of Consciousness Applied to the Creative Process
This course introduces the study of consciousness through personal experience, scientific reasoning, and traditional authoritative sources. It explores a new paradigm in which consciousness is primary and has a profound impact on the development of creativity in the cinematic arts. The course is taught with an emphasis on exploring the links between the practice of the Transcendental Meditation technique and the creative process. (4 credits)

STC 509 and STC 511 are required courses for the low-residency MFA in Creative Writing only.

STC 510 The Writer and the Self—Consciousness and Creative Process: Tracking the Path of Transcending
This online course offers students a deep immersion in their own unbounded creative nature. Consciousness and creativity form the perfect foundation for a prolific writing life. Students track the path of transcending through the practice of Transcendental Meditation as well as through writing, reading, and creative process. Every component of the course nudges students to open the faucets of creativity and rediscover the joy and bliss inherent in creative expression. This involves making mistakes, trying, and experimenting without self-censorship or push for perfection. Interactive assignments are designed to inspire a self-reliant, sustainable creative routine as well as a nourishing, authentic relationship between self, Self, and Muse. This course includes basic and refresher knowledge about the practice of the Transcendental Meditation technique and the process of transcending geared toward each student’s level of experience. (Required, 2 credits)

STC 511 Literature and the Self—Literary Techniques that Expand Awareness: The Spontaneous Outburst of Both the Heart and the Mind of the Poet/Writer
This online course examines consciousness through a literary lens, making connections between the craft of writing and the self and Self of the poet/writer. Textbook for the course is The Flow of Consciousness, a compilation of talks by Maharishi Mahesh Yogi on literature, writing, and consciousness edited by Rhoda Orme-Johnson and Susan Andersen. Seminars, readings, and interactive writing assignments explore literary techniques that poets and writers use to culture expansion of awareness: how sound offers a framework for silence; how rhythm and repetition push the mind to transcend; the function of the gap (white space, pause, cesura); the relationship between name and form, and more. (Required, 2 credits)
FOR 103 Health-Related Fitness: Physical Activity to Promote Longevity and Fitness for Life
This course presents the latest knowledge from Western science and the Maharishi Consciousness-Based Health Care program concerning the optimum daily routine for establishing the foundation for lifelong excellent health and growing enlightenment. The major focus is on the details of the ideal routine of sleep, diet, exercise, meaningful activity, recreation, and the importance of the regular experience of pure consciousness for optimum health and evolution. This course combines both lectures and physical activity labs. (2 credits — may not be repeated for credit)

FOR 205 Linguistics and Language Awareness: Social Context and Moving Toward Frictionless Flow
Language awareness is above all concerned with the context of language. Rooted in sociolinguistics, language awareness is the practice of using knowledge of how language functions toward the ultimate goal of understanding why it functions the way it does, emphasizing language that is contextually appropriate over language that is correct. Losing the distinction between correct and appropriate often results in unfortunate consequences for those who are unable or unwilling to conform to the “standard” dialects of their language. Linguistics and Language Awareness will challenge popular myths about language and examine both internal and external attitudes toward language, with particular attention on negotiating social boundaries to improve how people communicate and relate to each other. The course will provide students with an introduction to the basics of linguistics, including phonetics, phonology, semantics, grammar, syntax, and more, examining how increased awareness of the sociolinguistic dimension of language, in particular, can work in tandem with the practice of Transcendental Meditation to benefit movements for social justice, foster harmonious relationships between people and groups, and bring us closer to a frictionless flow of communication. (2 credits)
Prerequisites: WTG 192 or consent of the instructor, FOR 103

FOR 325 In Their Own Words: Great Minds of Sustainability and Integral Thinking
This course provides an introduction to the great minds of sustainability and integrates these fundamentals with integral theory. Key themes, including consciousness, community, and sustainability, cultivate an awareness of the leading-edge cultural worldview necessary for flourishing in the 21st century and beyond. Students learn how in this evolutionary age individual mindsets facilitate intercultural development and planetary flourishing. In addition to significant reading, students engage in creative, critical, and reflective dialogue with peers and faculty. (2 credits) Prerequisite for undergraduates: FOR 103
FOR 326 Consciousness and the Future of Agriculture 1 (STC Part 1): Aligning Individual Intelligence with the Culturing Intelligence of Nature
This course will aid students in the development of a holistic understanding of the farm in the context of the evolution of human life on planet earth. Many students learn Transcendental Meditation during this course, and therefore one aspect of the course focuses on the stabilization of correct practice. At the same time, as students learn, or continue, their Transcendental Meditation practice, they also learn unifying principles of consciousness which allow them to see connections between their own inner life and the life of the farm and their society—which relies on low-cost, high-quality food. Topics include: theories of agriculture (including organic regenerative agriculture), history of agriculture, future of sustainable agriculture, the soil food web, the farm as an organism, unifying principles of consciousness. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 328 Addressing Local and Global Problems through Regenerative Organic Farming
The regenerative organic farm works in accord with the laws of nature governing plant, animal, and human growth. Working in accord with nature allows the activity of the farm to strengthen the connection between human life and Natural Law and to gradually regenerate the environmental resources available to all. Students in this course learn to use the principles of modern science and Maharishi Vedic Science to write and speak about regenerative organic agriculture as a solution to local and global issues of sustainability and to connect their own development to the future of the planet. Topics include: regenerative agriculture, organic agriculture, Maharishi Vedic Science, unified field of Natural Law, problem solving, and collective consciousness. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 329 Regenerative Agriculture and the Life of the Farmer
Building a farming enterprise is to a large extent about building a fulfilling life in connection with nature and the cycles of the season. This course comprises an in-depth review of the mechanics of successful practice of the Transcendental Meditation technique, together with an introduction to the routines and strategies of life on the farm. Topics include: correct practice of Transcendental Meditation, transcending and routine work, an overview of higher states of consciousness, individual and family life in accord with Natural Law, and the human goals of a Regenerative Organic Farm. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 330 Consciousness and the Future of Agriculture 2 (STC part 2)
In this block students will connect the deep experience of Transcendental Consciousness to regenerative organic agriculture practices. The eight stages of plant growth will be
understood as a manifestation of the five elements, as well as mind, intellect and ego. Students will experience how Vedic recitations by trained Maharishi Vedic Pandits can enliven these eight stages in a plant to produce food that represents Brahman or totality. Students will harvest crops and gain experience in marketing them at different locations. (2 credits) **Prerequisite for undergraduates:** FOR 103

**FOR 370 Art: A Mirror of Consciousness**
Art is structured in the consciousness of the artist and the viewer. In this course students explore how paintings and sculptures mirror the structures, principles, and qualities of consciousness. Students view videos by Maharishi on art and read transcripts of these talks in the book *The Unmanifest Canvas: Maharishi Mahesh Yogi on Art, Creativity, and Perception.* Students will also create a *mandala* and other art projects. (2 credits) **Prerequisite for undergraduates:** FOR 103

**FOR 375 Introduction to the Bachelor of Fine Arts in Creative and Professional Writing: Taking the Right Angle**
In this introductory course, students decide what portfolio project(s) they want to focus on during their BFA in Creative and Professional Writing. This process happens with guidance of the course faculty and a faculty board of advisors. Students will establish a timeline for their BFA Studio classes and research necessary resources. In addition, students will draw on selections from *The Flow of Consciousness: Maharishi Mahesh Yogi on Literature and Languages*, edited by Rhoda Orme-Johnson and Susan Andersen, to connect their ideas about the creative process to Maharishi Vedic Science. By the end of the course, students should have a completed plan for their BFA Studio classes as well as a post-graduation plan and a clear statement of purpose. (2 credits) **Prerequisites:** WTG 192, plus admission to the BFA with consent of the department chairs and the program director, FOR 103

**FOR 399 Directed Study**
(variable credits) **Prerequisite:** consent of the MVS department faculty and the Academic Standards Committee

**FOR 403 Creativity and the Image in Studio Art: Engaging the Dynamics of Natural Law**
Visual expression in works of art reveals the artist’s connection with the deep laws fundamental to seeing and creating visual images. In this course students explore art through a variety of videotape offerings presenting perspectives on creativity and the arts. Students see tapes of Maharishi speaking on the creative process and engage in discussions related to topics in creativity. Tape and discussion sessions are complemented by studio exercises that address the development of image in two dimensions, allowing
students to focus on the creative process and experience it as a part of themselves. Lab Fee $10 (2 credits) Prerequisite for undergraduates: FOR 103

FOR 406 Communication: Heart-Mind & Mind-Heart
In this course students learn to make subtle distinctions between effective and ineffective communication, in order to refine and develop their communication skills. Communication, an exchange of feelings and thoughts, is a two-way flow from one’s own inner heart and mind through outer behavior to another person’s mind and heart. Healthy effective communication, facilitated by careful attention and listening, involves being clear about one’s own feelings and thoughts as well the thoughts and feelings of others. This course will offer a practical approach to communication, lectures by Maharishi on communication skills, and enjoyable daily in-class exercises to develop them. Includes a required 3-day TM retreat or World Peace Assembly (2 credits) Prerequisite for undergraduates: FOR 103

FOR 409 The Quest for Self-Knowledge in Media and Myth: The Hero and Heroine's Journey as the Development of Consciousness
Students explore their own spiritual quest in the light of the wisdom shared in great mythic stories, focusing on an ancient epic (the Rāmāyaṇa), mythology, and modern films. Students identify the universal stages of the quest archetype: the hero’s journey as the hero evolves to higher states of awareness. Students critically evaluate theories of consciousness, including the Maharishi Science and Technology of Consciousness, analyzing how these theories can illuminate mythic stories and their own lives. In the culminating course project, students create a mythic story that reflects their personal vision and the transformation of consciousness. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 411 Self-Referral Consciousness and Vedic Literature
In this course, students view lectures by Maharishi recorded in Maastricht, Holland, in January 1991. This fabulous series of talks covers many topics from the Vedic literature, including Self-referral, Brahman, Ātmā, Rk Veda, Yoga, Karma Mimāmsā, Vedānt, Vaisheshik, Nyāya, Shikshā, Smṛti, Vyākaraṇ, and many more. Students review each lecture with summary points and discussion and relate the lectures to their own life experiences. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 412 Creativity and Memoir Writing
From the standpoint of the Maharishi Vedic Science, creativity expresses the fundamental characteristic of nature itself — to expand through the process of evolution and find full expression. In this course students explore the full range of creativity, from the creative dynamics within the pure, self-referral level of consciousness, through self-expression in
the arts and other fields, and culminating in Self-expression in unity consciousness. This rich and stimulating course, developed by faculty in the Departments of Fine Arts and Literature, includes tapes of Maharishi speaking on the creative process and a wide range of other creative activities. (2 credits) Prerequisites for undergraduates: FOR 103 and ART, LIT, or MC major, or permission of instructor

FOR 413 Is the Soul Immortal?
The question of the immortality of the soul is as old as humanity and has been considered by almost everyone, regardless of religious persuasion or cultural background. In this course almost as much consideration is given to the meaning of the question itself as to its answer. Although materialism is the prevailing mainstream paradigm in contemporary philosophy of mind, neuroscience and cognitive psychology, traditional views have not generally regarded the soul as a product of the material brain and body. We will review the history of the concept of soul in Western philosophy, featuring the perspectives of Plato and Aristotle, Augustine, Aquinas, Descartes, Leibniz, Locke, Reid, Hume and Kant, among others. This will be supplemented with readings from the Upanishads and other Eastern works. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 416 Swamped or Swimming: Collective Problem Solving
Solutions to problems that face groups will be best addressed when all the participants are fully engaged in the process. In this course we will create a close synergistic learning community by learning Maharishi’s insights into the mechanics of group process, effective communication and development of leadership skills. We will use a role-playing program and Maharishi Vedic Science to bring out the best in-group processes. A project requiring planning, design and construction will be the environment for learning the life cycle of groups. Includes a required 3-day TMR/WPA. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 417 Understanding Dharma
Even though the concept of Dharma exists in many cultures throughout time, the experience of living according to our Dharma, our destiny, has been elusive. Through Maharishi Vedic Science, this course presents knowledge that helps move this ideal closer towards reality. After reviewing Dharma cross-culturally and the state of Dharma in contemporary society, we will explore Dharma’s origin and range, its essential nature and its fundamental components—and how these apply to our daily lives. As we move through each aspect of the course, students will map out their own Dharma, discovering both the simplicity of Dharma at its source and the rich complexities of Dharma as it unfolds. (2 credits) Prerequisite for undergraduates: FOR 103
FOR 418 Nature, Consciousness and Experience: Vedic Environmental Ethics and reflective immersion in the cycles of the Earth
The Vedic tradition of India includes one of the strongest, most comprehensive, and integral environmental ethics among both our contemporary secular ethics as well as religious environmental ethics. This class will explore the many dimensions of the Vedic tradition’s concern for the natural world, how the natural world contributes to human well-being including the achievement of enlightenment, but also how human evolution and the elevation of collective consciousness contributes to the natural virtue that is necessary for life in harmony with nature. We will ground this knowledge with direct experience and understanding of the many cycles and forces shaping our lives on this planet. We’ll also discuss the forces that obscure natural virtue and lead to cultures and characters that have produced the current crisis. (2–6 credits) Prerequisite for undergraduates: FOR 103

FOR 419 Enlightened Film
This course will focus on films that display deep principles of life and living. After watching each film students will discuss the underlying philosophies of these films in light of Maharishi Vedic Science. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 423 Team Building and Performance: Progressing Together to Enjoy Fulfillment Together
This course focuses on providing students with tools and techniques to be effective leaders and exceptional group participants. The course has an emphasis on improving communication skills and developing greater self-awareness. Students learn about individual tendencies, team dynamics, mediation and facilitation. They also learn how to recognize subtle body language in communication and how to recognize and address the needs and concerns of diverse individuals they are working with. Together students explore what it means to be a leader in our communities and specifically in the Maharishi University of Management community. The class is interactive and provides students with time to experience the lessons through various planned activities. All students interested in being part of the Peer Mentorship must take this course. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 424 Professional Success: Skill in Action
The goal of this course is to familiarize students with soft skills — intrapersonal and interpersonal — that determine a person’s ability to excel or at least fit in a particular social structure, such as a project team or a company. These skills include competencies in areas such as communication, personal habits, time-management, personal relations, etiquette, self-motivation, self-discipline, persuasion, etc. Students will understand cultural orientation of the U.S. i.e., how people in the U.S. speak, act, negotiate and make
decisions. They will also learn how these skills arise from their common source in the eternal laws of nature as explained by the Science of Creative Intelligence. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 425 Maharishi on Literature and Language
In this course, students view lectures by Maharishi on literature and language. Students also read transcripts of each lecture in the book The Flow of Consciousness: Maharishi on Literature and Language, edited by Rhoda Orme-Johnson. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 429 Maharishi’s Principles of Success: Developing Purity of Consciousness and Aligning Behavior with Natural Law as the Foundation of Success in Every Area of Life
Success in life is based on profound knowledge that guides action to produce the desired achievement to bring fulfillment. This course explores key themes of knowledge that highlight the contributions of Maharishi Vedic Science and Technology to individual and professional success and fulfillment in life. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 430 Topics in Maharishi Vedic Science
This course presents the knowledge in Maharishi Vedic Science, as formulated by its Founder, Maharishi Mahesh Yogi, and as applied to all streams of knowledge by the University faculty. (2 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Prerequisite for undergraduates: FOR 103

FOR 431 Higher States of Consciousness in Maharishi Vedic Science: The Awakening of Total Knowledge in Human Awareness
This course explores the unfoldment of higher states of human consciousness — the full realization of your own limitless potential — as described by Maharishi and as experienced naturally and spontaneously by Transcendental Meditation practitioners and by people throughout history. The course examines the experiences belonging to each state, the developmental processes that culture each state, pertinent research, and practical outcomes of these experiences in daily life, thereby providing an overview of the range of possible experiences on the way to full enlightenment. This course is question-and discussion-driven, with an emphasis on connecting this understanding of higher states to your own experiences. This course is a General Education graduation requirement for all students (see MVS 202 as an alternative). (2 credits) Prerequisite: FOR 103 or PH 101.
FOR 433 Women, Wisdom, and the World: Enlivening the Creative Light of Consciousness in Our Lives
This course will explore the principle of the divine feminine through consideration of different historical perspectives. We will discuss models of ‘power’ and how these impact both women and men in their lives. We will expand our knowledge of our relationship with ourselves, others, and nature in light of our theme: Pathways to Partnership, and explore how together we can have the greatest impact on the world around us. (2 credits) Feminine spectrum only, *Prerequisite for undergraduates: FOR 103*

FOR 433M Women, Wisdom, and the World, A Course for Men: Exploring and Creating Pathways to Partnership
This course will explore the principle of the divine feminine through consideration of different historical perspectives. We will discuss models of ‘power’ and how these impact both women and men in their lives. We will expand our knowledge of our relationship with ourselves, others, and nature in light of our theme: Pathways to Partnership, and explore how together we can have the greatest impact on the world around us. Includes a required 3-day TM Retreat/World Peace Assembly (2 credits) Male spectrum only, *Prerequisite for undergraduates: FOR 103*

FOR 434 Creativity, Art, and Maharishi Vedic Science
Visual expression in works of art reveals the artist’s connection with the deep laws fundamental to seeing and creating visual images. In this course students explore art through a variety of videotape offerings presenting perspectives on creativity and the arts. Students see tapes of Maharishi speaking on the creative process and engage in discussions related to topics in creativity. Tape and discussion sessions are complemented by studio exercises that address the development of image in two dimensions, allowing students to focus on the creative process and experience it as a part of themselves. Lab Fee $10 (2 credits) *Prerequisite for undergraduates: FOR 103*

FOR 437 Becoming a Leader: Strengthening Your Relationship with Your Self to Rise to True Leadership
Delving into Maharishi’s knowledge of leadership, students hear leaders interpret their leadership experiences, and leadership consultants speak on the success of consciousness-based leadership. Students examine their own experiences of leadership and discover the principles of consciousness at work in those experiences. They also consider how to apply this knowledge of leadership in their future career. (2 credits) *Prerequisite for undergraduates: FOR 103*
FOR 438 Ideal Relationships: Improving Your Relationships by Exploring the Principles of Natural Law That Operate in All Relationships
We live our lives in relationships, beginning with our mother, father, and family, expanding to our friends, spouse, and children, our business associates, our fellow citizens, and on to all the people of the world. Handling these relationships with wisdom, appropriateness, and love is central to our good fortune. The Science of Creative Intelligence and Maharishi Vedic Science provide insights into how all relationships have their source in the self-referral dynamics of consciousness, our own Self — and guidelines for ensuring that our relationships are in accord with the natural evolution of life in accord with natural law. The course features tapes of Maharishi, guest presentations, group projects, and practical knowledge of etiquette. (2 credits)
Prerequisite for undergraduates: FOR 103

FOR 442 Maharishi Self-Pulse Assessment: The Touch of Three Fingers on the Pulse — Finding and Correcting Imbalance and Creating Health
Maharishi has encouraged every individual to learn the Maharishi Self-Pulse™ program as a technology for structuring more ideal health for themselves and their entire family. This course is the most comprehensive course offered to date. During the course the following topics are discussed:
• How the intelligence within the physiology is reflected in the pulse
• Feeling the influence of cosmic cycles in the pulse
• Feeling imbalances in the pulse
• The stages of imbalance
• Causes and effects of imbalance
• How the body’s inner intelligence protects against imbalance
• Restoring and maintaining balance through proper diet and through daily and seasonal routine. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 445 Maharishi Consciousness-Based Health Care: Creating Perfect Health by Understanding the Human Physiology as the Expression of Veda and Vedic Literature
This course presents the wholeness of the Maharishi Vedic Approach to Health™, which is rooted in the historic discovery of the Veda and Vedic Literature in human physiology, brought to light by Professor Tony Nader, MD, PhD, under the guidance of Maharishi. Students learn:
• How the intelligence of nature, as expressed in the Veda and Vedic Literature, forms the basis of the structure and function of the physiology, and
• How human physiology forms a perfect replica of nature’s intelligence, the Constitution of the Universe.
This knowledge, together with the technologies that arise from it, represents the complete knowledge of perfect health — and the key to perfection in every area of life. (2 credits) 

Prerequisite for undergraduates: FOR 103

FOR 446 Nobel Laureates
In this course, students hear presentations from a range of faculty on the latest and most exciting discoveries in each of their fields — discoveries that either have won a Nobel Prize or are worthy of one. Students learn more about the innovation process by exploring, with leading University faculty, the cutting edge of knowledge and the people behind it in a variety of disciplines ranging from physics to the visual arts. Students’ own self-referral creative process will be enlivened through multimedia presentations, lively discussions, readings, and creative exercises. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 451 Building a Maharishi Sthāpatya Veda Home
This course will outline basic principles of Maharishi Sthāpatya Veda (MSV) design, show how these principles can guide the design of a new home and how that design can be authentically expressed as a finished structure through care and precision during the construction process. The course will feature presentations by experts in this field, a tour of MSV homes, and a step-by-step review of a special country cabin project. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 452 Maharishi Gandharva VedaMusic: The Eternal Rhythms and Melodies of Nature
Gandharva Veda is the music of the ancient Vedic civilization, known today as North Indian classical music. Traditionally, its goal is to create balance and harmony in the physiology and environment through resonance with the frequencies of natural law. Taught from the perspective of Maharishi Vedic Science, this survey course introduces the basic of Gandharva music through listening, recitation, singing, playing, rhythm practice, and simple improvisations. Prior musical training is not necessary. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 454 Yoga Sūtra: Textbook for the Science and Technologies of Consciousness
In this Forest Academy, students read the Yoga Sūtra in Sanskrit and in English, and learn Vedic Expressions from the Yoga Sūtra emphasized by Maharishi. Students view tapes by Maharishi on Yoga and the Yoga Sūtra. Students have the opportunity to practice extended sessions of TM and the TM-Sidhi program for the entire two weeks. (2 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Prerequisite: MVS 102, Prerequisite for undergraduates: FOR 103
FOR 458 Āyurvedic Cooking
This course provides principles and practical knowledge of how to promote good health through proper nutritious diet. Students learn to select their own specific diet based on their body type and according to time of day and season, to achieve balanced digestion in order to promote optimal nourishment and health. Topics include: cooking method and its effect on quality, the right time to cook and eat, the cycle of seasons as well as life’s seasons, the effects of food on the development of higher stages of consciousness. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 462 Maharishi Yoga Āsanas
The goal of this course is to enhance physiological balance and mind-body coordination through simple Maharishi Yoga Āsanas program postures and breathing exercises. This course gives a comprehensive understanding of the nature and attainment of Yoga, which is the unification of individual and cosmic life. (2 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Prerequisite for undergraduates: FOR 103

FOR 463 Rāmāyaṇa
In this course students study the Rāmāyaṇa, one of the great epics of the Vedic Literature. Students read the Rāmāyaṇa in Sanskrit and English, and see videos of the Rāmāyaṇa. Students see videotapes by Maharishi on topics related to the Rāmāyaṇa and create presentations on the Rāmāyaṇa. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 466 Introduction to Consciousness-Based Education
In this course students explore the depth, breadth and practicality of Consciousness-Based education. Topics include: Components of Consciousness-Based education; Maharishi’s principles of ideal teaching, communication, and behavior; Quiet Time programs; and designing an ideal school. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 467 The Upanishads
In this course students study the Upanishads, one of the most important aspects of the Vedic Literature. Students read the Upanishads in Sanskrit and English, see videotapes by Maharishi on the Upanishads, and learn Vedic expressions from the Upanishads. (2 credits) Prerequisite: MVS 102, Prerequisite for undergraduates: FOR 103

FOR 469 Maharishi on God and Religion
This course focuses on Maharishi’s knowledge on the nature of God, religion, prayer, ritual, scripture, spiritual development, devotion and service, the relationship between
science and religion, right and wrong, the kingdom of God on Earth, and the state of God-realization. The course includes extended group practice of the Transcendental Meditation program. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 470 Maharishi Vedic Science and Sustainability
In this course students explore a topic in sustainability such as food and agriculture, energy, water or environmental management, and how it relates to the larger Self and Maharishi Vedic Science. The course is suitable for all Maharishi University of Management students. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 476 Music Fundamentals through Improvisation for Beginners: Enlivening Creative Intelligence Within
Woven throughout the course, students will view Maharishi videos on creativity, music and consciousness and the junction point of silence and dynamism. Students will learn western music notation and how to play basic scales and chord structures on a keyboard. Also, there will be daily improvisation exercises to develop listening and rhythmic skills. This course will enable the student to explore both their inner innate musical nature and the outer expression of it. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 477 Vedic Dance: Introduction to Bharata Nātyam
Students will enjoy daily lessons in the beginning dance steps of Bharata Nātyam, as well as presentations on the unique components of this ancient form and the underlying principles of Vedic Dance in light of Maharishi Vedic Science. Daily practice sessions include instruction in beginning Adavus (basic units of dance), Hasta Mudrās (hand positions), and Shloka (a short expressive dance piece). The course also includes dance demonstrations and presentations of knowledge on the origins, evolution, and composition of Bharata Nātyam as well as the health benefits of Vedic Dance Therapy. Course fee: $40. Prerequisite for undergraduates: FOR 103. No previous dance training necessary.

FOR 478 Consciousness in the Environment: Creating an Intimate and Personal Relationship with Nature
In this course students learn to understand and experience how the Maharishi Vedic Procedures of Agriculture and Environmental Management can be used to awaken the consciousness and inner intelligence of plants and animals, so that their growth, health-giving, and life-nourishing properties are maximized to create a quality of food capable of promoting full human potential in higher states of consciousness—Vedic food for Vedic consciousness. Students learn how to use the skilled hand of nature—Total Natural Law—to quietly organize the infinitely complex network of factors influencing food
production; thus maintaining harmony, balance, and sustainability in our all agriculture practices. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 479 Maharishi Västu Architecture: Supporting an Ideal Physiology through Natural Law-Based Design and Construction
In this course, students will be introduced to the range and application of Maharishi Västu architecture. Students will learn how the principles of Sthāpatya Veda apply with equal relevance to their own physiology, the layout of buildings and cities, the arrangement of galaxies in the universe, and the structuring dynamics of consciousness. Students will also become acquainted with natural and energy-efficient construction, and will understand the relationship of these contemporary interests with the timeless knowledge of Vedic architecture. This course alone does not prepare students sufficiently to start designing Västu houses. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 481 Enlightened Leadership International Summit
The ELI Summit is an opportunity for the next generation of leaders to connect with other young leaders from around the world. The goal is to create peace and build friendships while increasing leadership skills. ELI Summit participants enjoy deep inner silence and experiences that come from extended practice of the Transcendental Meditation and TM-Sidhi program, plus profound knowledge from Maharishi and class sessions with Maharishi’s top leaders, all done in an engaging, dynamic way. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 482 Maharishi Jyotish: Gaining Mastery Over Natural Law
In this course students study how the Vedic disciplines of Maharishi Jyotish and Maharishi Yagya provide the intellectual and experiential means to avert problems from arising and promote good fortune in life. Students learn the basic qualities of the Grahas, Rāshis, and Bhāvas, and how to apply them to specific examples. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 483 Story in the Gap: Screenplay as a Vehicle of Self-referral and Silence
This course examines the way motion interacts with silence in film and screenwriting. The gap when thought pauses, and the silence found there, play many roles in transformation and discovery throughout narrative, particularly cinema. Culturing an understanding of that moment, and its experience in TM, will help develop compelling screenwriting, if applied to cinema through the lens of personal experience in the development of consciousness. In this course, we will watch and analyze movies which exemplify the practice of silence and use our personal insights and experiences through TM to develop our own ideas in cinematic expression. (2 credits) Prerequisite for undergraduates: FOR 103
FOR 484 The Story of Film
This course is designed to give students an understanding and appreciation of the evolution of cinema around the world. In this forest academy course students will be watching films from around the world from different eras. The course aims at developing a finer perception and appreciation for film as well as providing an introduction to the history of cinema. Students will be taught how to critique films and appreciate how the development of consciousness is reflected in the core stories of cinema. At the end of the course students should be able to demonstrate an appreciation for the finer mechanics and film crafts that are employed to create compelling and meaningful films that reflect the deepest experiences of the development of consciousness. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 487 Consciousness – A Mathematical Approach
This course consists of 14 recorded lessons taught by Tony Nader, MD, PhD, in which he unfolds the details of his 65-page paper “Consciousness Is All There Is: A Mathematical Approach with Applications,” which was inspired by Maharishi. This paper was published in the Journal of Mathematics and Consciousness and is breaking new ground in mathematics. Dr. Nader discusses how heretofore unsolved problems can be resolved with this new paradigm. There are no mathematics prerequisites for this course. (2 credits) Prerequisite for undergraduates: FOR 103

FOR 496 World Peace Assembly (men)
In this Forest Academy, students participate in a World Peace Assembly with the Maharishi Purusha\textsuperscript{sm} program in the forested mountains of West Virginia. The profound silence of Purusha allows students to refine their own consciousness while creating coherence in national consciousness. Additional fees involved. (2 credits) Prerequisites for undergraduates: FOR 103; Additional prerequisites: TM-Sidhi Program, men only, additional travel expenses

FOR 497 World Peace Assembly (women)
In this Forest Academy, students participate in a World Peace Assembly with the Mother Divine\textsuperscript{sm} program in a location such as Maharishi Vedic City or upper New York State. The profound silence of the Mother Divine program allows students to refine their own consciousness while creating coherence in national consciousness. Additional fees involved. (2 credits) Prerequisites for undergraduates: FOR 103, TM-Sidhi Program, women only
FOR 498 Teaching Practicum
Students expand, express and apply their growing knowledge of Maharishi Vedic Science by functioning as professional exponents of Consciousness-Based Education, the educational system based on Maharishi Vedic Science. (2 credits) Prerequisites for undergraduates: FOR 103 and consent of department

FOR 500 The Science of Creative Intelligence: Understanding and Experience of the Source, Course, and Goal of Creative Intelligence in Your Own Pure Consciousness as the Basis of All Knowledge and Success in Life
In the Science of Creative Intelligence, students study the structure of the field of pure intelligence, from which all fields of knowledge arise. Only from this most fundamental level can knowledge be unified. This course examines how the creative intelligence displayed in every grain of creation arises in a systematic and sequential fashion from within that one basic universal field. Students also examine how one can access and use that universal field of intelligence to bring fulfillment to their own lives and to life on earth. In 1972, Maharishi laid out the main principles of this new science in a 33-lesson, videotaped course. He integrated the understanding of nature’s intelligence provided by modern science (through its objective approach) and by ancient Vedic Science (which utilizes both objective and subjective approaches to gaining knowledge). Students not yet instructed in the Transcendental Meditation program learn this simple, effortless technique as part of the SCI course. (4 credits)

FOR 503 Health-Related Fitness: Physical Activity to Promote Longevity and Fitness for Life
This course presents the latest knowledge from Western science and the Maharishi Consciousness-Based Health Care program concerning the optimum daily routine for establishing the foundation for lifelong excellent health and growing enlightenment. The major focus is on the details of the ideal routine of sleep, diet, exercise, meaningful activity, recreation, and the importance of the regular experience of pure consciousness for optimum health and evolution. This course combines both lectures and physical activity labs. (2 credits — may not be repeated for credit)

FOR 504 Leadership for Technical Managers
This course is an interactive, thought-provoking, and fast-moving workshop that challenges the major myths about leading and counters with a new mindset. The purpose of the course is to erase the mythology surrounding leading and leadership and introduce new knowledge so that authentic leadership is reflected and multiplied at every level of the organization, thereby increasing productivity and lowering stress. Ultimately, the goal of the course is to take the individual and team to its next level of success by focusing on improvement of communication, leadership, and influence skills. (2 credits)
FOR 521 Consciousness in Filmmaking: Unleashing the Unbounded
In this course students will explore the connection between consciousness and filmmaking. This will be accomplished through a series of film industry guest lecturers, creative exercises, short film analysis, and Maharishi tapes on creativity and consciousness. Included in the course is a three-day TM retreat, specifically geared towards the DLMFA in Film students. (2 credits) Prerequisite: MFA in Film students only

FOR 524 Advanced Topics in Field Sustainability
Topics revolving around deep sustainability as they relate to field experiences will be the subject of this Forest Academy during your second year of study. If your fieldwork takes place outside Fairfield, you will take time out of your regular work to conduct a self-designed version that delves deeply into some aspect of your field experience in consultation with your adviser. (2 credits) Prerequisite: MA in Sustainable Living students only

FOR 538 Ideal Relationships: Improving Your Relationships by Exploring the Principles of Natural Law That Operate in All Relationships
We live our lives in relationships, beginning with our mother, father, and family, expanding to our friends, spouse, and children, our business associates, our fellow citizens, and on to all the people of the world. Handling these relationships with wisdom, appropriateness, and love is central to our good fortune. The Science of Creative Intelligence and Maharishi Vedic Science provide insights into how all relationships have their source in the self-referral dynamics of consciousness, our own Self—and guidelines for ensuring that our relationships are in accord with the natural evolution of life in accord with natural law. The course features tapes of Maharishi, guest presentations, group projects, and practical knowledge of etiquette. (2 credits)

FOR 591 Advanced Topics in Maharishi Vedic Science
In this graduate-level course students examine the foundational principles of Maharishi Vedic Science. Careful consideration is given to the logic and structure of Maharishi’s lectures and writings. (variable credits)

FOR 595 Faculty Training Course, Part 1: Learning the Techniques of Consciousness-Based Education to Deliver Education for Enlightenment
This course introduces new MUM faculty to the principles and practices of Consciousness-Based education. Topics in this course include key features of Consciousness-Based education, with particular attention to the Main Points Chart. This
course includes a 3-day TM Retreat or World Peace Assembly. (2 credits) **Prerequisite:** consent of instructor

**FOR 596 Faculty Training Course, Part 2: Learning the Techniques of Consciousness-Based Education to Deliver Education for Enlightenment**
This course for new MUM faculty continues their introduction to the principles and practices of Consciousness-Based education. Topics in this course include the learning cycle of Knowledge-Action-Achievement-Fulfillment, the University’s Essential Learning Outcomes, the MUM syllabus, the Student Learning Chart, review activities, and the Course Overview Chart. (2 credits) **Prerequisite:** consent of instructor

**FOR 597 Faculty Training Course, Part 3: Learning the Techniques of Consciousness-Based Education to Deliver Education for Enlightenment**
This course for new MUM faculty completes their introduction to the principles and practices of Consciousness-Based education. Topics in this course include the Unified Field Chart, the Unity Chart, the structure of an effective lesson, and Maharishi’s Principles of Ideal Teaching. (2 credits) **Prerequisite:** consent of instructor

**FOR 610A,B Ethics of Enlightened Leaders**
These courses present a Consciousness-Based perspective on ethics for leaders and engage students in exploring the application of this perspective to practical ethical problems in business professions. The formula for effective and virtuous action is – “Established in Yoga, perform actions” – be awake in the Absolute Self while engaging in action. When fulfillment in the Self is firmly established, the leader is naturally independent of possessions, and balanced in gain in loss. Such an enlightened leader acts for the welfare of the world, without personal attachment. (2 credits)

**FOR 700 Vedic Science Research: Using Maharishi Vedic Science to Illustrate Fundamental Principles in Dissertations**
This course provides an opportunity for PhD students to investigate the relation of Maharishi Vedic Science to their dissertations. What students produce in the course forms the seeds for sections in their final dissertation. During this course students create a Unified Field Chart and a Richo Akshare line for their dissertation, refine their ability to write about Maharishi Vedic Science, and enjoy a lively interchange with fellow PhD students from all departments in the University. (2 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) **Prerequisite:** Students must be in a doctoral program and have completed their Qualifying Exam
DEPARTMENT OF APPLIED ARTS AND SCIENCES

FACULTY

- Christopher Jones, EdD, Chair, Professor of Education, Dean of Assessment and Undergraduate Studies
- Anne Dow, PhD, Professor of Mathematics
- John Hagelin, PhD, Professor of Physics and President of Maharishi University of Management
- Fred Travis, PhD, Professor of Maharishi Vedic Science and Dean of the Graduate School
- Ben McClendon, PhD, Assistant Professor of Literature
- Dustin Matthews, BPE, MEd, MA, Instructor of Exercise and Sports Science
- Tania Kalamara, BA, Instructor of Exercise and Sport Science
- Ken Daley, MEd, Emeritus Professor of Exercise and Sport Science

INTRODUCTION

The Applied Arts and Sciences major is an interdisciplinary degree designed to deliver the University’s unique knowledge of an integrated view of the modern disciplines in light of the knowledge and experience of consciousness. This view is introduced in the first course in the major, The Science and Technology of Consciousness, and then further elaborated throughout the major. Two later courses specifically look at the integration of human physiology with consciousness and the integration of physics with consciousness. In a final senior project, AAS students demonstrate their ability to integrate two or more fields on the basis of their deepening knowledge and experience of consciousness.

The major also focuses on holistic personal development, both from the standpoint of general intelligence and from the standpoint of the skills essential for workplace success: including, for example, quantitative reasoning, critical thinking, written and oral communication, and health.

The Department of Applied Arts and Sciences also hosts two interdisciplinary or applied non-degree programs: the minor in World Peace and the program in Exercise and Sports Science.

The goals of the major are to help graduates be able to:

1. Display improvements in perception, thinking, feeling, and overall growth of consciousness.
2. Display a healthy and optimal quality of life that allows them to get through their daily activities without undue fatigue or physical stress.

3. Apply unifying principles within and across disciplines to synthesize ideas, integrate divergent perspectives, and understand what they have learned in light of their own consciousness.

4. Evaluate their confidence in a thesis or judgment on the basis of reasoning that is precise, deep, logical, fair-minded, caring, and creative.

5. Respond to and express ideas, feelings, and information in speech, text, and other media.

6. Act in the local arena—with a global perspective—to address world economic, cultural, social, and environmental challenges.

SPECIAL FEATURES

- **Available online:** The BA in Applied Arts and Sciences is available both on campus and online. The online offering includes recorded videos as well as live webinars and online forums that give students the opportunity to interact with the faculty and with other students. Students should budget approximately 15 hours a week, which can be mostly on weekends, to complete their work for each course they choose to take.

- **An opportunity for working adults to return to school:** The online BA in Applied Arts and Sciences is designed primarily for adults who have previously attended college or university and who would like to finish their degree. The flexible schedule and availability online means that those with jobs and family can study while continuing with their present responsibilities.

- **Progress as quickly or as slowly as one chooses:** Students can take as few as four or as many as 20 units per semester (essentially full time). Which courses and how many you take is up to your and your schedule.

DEPARTMENTAL REQUIREMENTS

**Entrance Requirements for the BA in Applied Arts and Sciences**

While the on-campus program is open to high school graduates, the online program is designed primarily as a degree completion program for those with 60 or more transferrable credits. Students with fewer than 60 credits are welcome to enroll in the program but may need to take some courses on campus to complete their degree.

Students entering the online bachelor’s degree also must have the equivalent of WTG 192 Composition I, either in transfer credit or from passing an online writing assessment.
Graduation Requirements for the BA in Applied Arts and Sciences

To graduate with a BA in Applied Arts and Sciences, students must successfully complete 41 credits of coursework to include:

Thirty-three credits (33) of Foundational Courses:
- STC 108 The Science and Technology of Consciousness (5-6 credits)
- FOR 103 Health-Related Fitness (2 credits)*
- PH 101 Physiology Is Consciousness (4 credits)
- PHYS 310 Foundations of Physics and Consciousness (4 credits)
- MATH 130 CCTS: Quantitative Reasoning (4 credits)*
- WTG 192 College Composition 2 or WTG 195 Writing for Professional Development (4 credits)*
- FOR 431 Higher States of Consciousness (2 credits)
- AAS 400 Senior Project (4-8 credits)
- One CCTS Critical and Creative Thinking Seminar course (designated with a CCTS on the course schedule) (4 credits)
* These requirements may be met through transfer credit from other institutions.

Plus eight (8) additional upper division (300-level and above) course credits from at least two separate degree programs.

Specialization Options in the BA in Applied Arts and Sciences

A student may earn the BA in AAS with a specialization in a field (academic department) if:
- their course work for the BA in Applied Arts and Sciences includes 32 credits from that field
- their Senior Project incorporates knowledge from that field in a significant manner.

At graduation, the specialization will be designated on the student’s diploma.

Graduation Requirements for the Minor in World Peace

To graduate with a minor in world peace, students must complete:
- GOV 290 Collective Consciousness and World Peace
plus 16 credits of course work from the following:
- MGT 402 Managing for Sustainability
- MGT 403 World Peace Project
- MGT 405 Cross-Cultural Communication
- MGT 484 Mediation and Negotiation
- MVS 302 Dharma: Insights from Maharishi’s Commentary on the Bhagavad Gita
- MVS 304 Application of Maharishi Vedic Science
• MVS 331/332 Transcendental Meditation-Sidhi® Course
• SL—P250 Global Sustainability
• SL—P301 Becoming a Change Agent for Sustainability
• SL—P404 How to Create Social Change

Exercise and Sports Science Program

The Exercise and Sport Science Program is committed to offering a wide range of sport and recreation activities to meet the needs of our diverse international population. The department administers undergraduate recreation courses, intercollegiate and recreational sports clubs, and teaches selected courses in exercise and sport science. Recreation classes serve as a dynamic activity to balance the academic routine of students. Sports clubs and intramural events provide ongoing competition for sports enthusiasts.

The department is very proud to offer a high-quality outdoor recreation/adventure program. We offer day-, week-, and month-long courses in experiential outdoor recreation and leadership. We engage in many activities such as windsurfing, whitewater kayaking or canoeing, sea kayaking, flat-water canoeing, rock climbing, swimming, horseback riding, hiking, backpacking, and skiing. In the past, we have travelled to locations throughout the United States and held six-week courses in New Zealand and Australia. Current programs will depend on student demand.

Each fall the department offers its Base Camp, where all freshmen and selected faculty and upperclassmen spend four days in a wilderness experience. The students have the opportunity to build friendships for a lifetime as they engage in activities like canoeing, caving, swimming, and mountain biking. The department offers a winter Base Camp for students entering the university during second semester. Activities focus on winter sports like ice-skating, skiing and snowboarding.

To help students develop and implement a well-rounded fitness program, each student is offered a health-related fitness assessment at the beginning of every semester. The fitness assessment establishes a reference point that allows the student to monitor fitness changes and progress throughout the year. For a schedule of upcoming fitness assessments, contact Tania Kalamara at tkalamara@mum.edu. The faculty in the Department of Exercise and Sport Science are available to assist the students to plan and implement their individualized health and fitness program.

COURSES

Note: Courses listed in the Requirements sections above can be found in the following sections of the catalog:
STC: General Education  
FOR: General Education  
PHYS: Department of Physics  
MATH: Department of Mathematics  
MGT: College of Business Administration  
MVS: Department of Maharishi Vedic Science  
SL: Department of Sustainable Living  
WTG: Department of English  
CCTS: A CCTS-designated course is offered by each department

**AAS 100 Creating a Daily Routine for Maximum Growth**  
Success in the online programs of Maharishi University presumes every student is regularly practicing the Transcendental Meditation program and growing each day in restful alertness. This course reviews the principles brought out in the introductory course in Transcendental Meditation and helps each student establish a regular routine that supports their health and personal development. (1 credit)

**AAS 400 Senior Project in Applied Arts and Sciences**  
This course presents each student with the opportunity to reflect upon and draw together all of the disciplines and broad themes they have explored in the context of the Liberal Arts major. Students are expected to choose one or more interdisciplinary themes based broadly on the science and technology of consciousness to present a research paper, report, or multi-media project that interprets a contemporary issue or problem in light of these themes and integrates the coursework they have had. They work closely with their faculty advisor to choose, draft, and re-draft their paper or project in a one-month, full-time effort. (4–8 credits)

**ESS 325 Rotating University: Leadership in Adventure Sport**  
This is a leadership-training course held in various locations around the U.S. and the world. Venues have included Southeast Asia, Australia, New Zealand, and the American southwest. All students take an active part in organizing, planning, and leading the course. The students actively interact with local cultures and ecosystems, and typically travel by a combination of transportation ranging from bicycle, car, train, and bus, to boat. Every two to three days the group stops for another adventure, such as surfing, snorkel diving, hiking, mountain biking, rock climbing, sea kayaking, and white-water kayaking/rafting. (4 credits)

**ESS 498 Internship**  
This internship offers practical and advanced knowledge and experience in a specific area of Exercise and Sport Science. Students apply classroom knowledge in a professional
setting that may be on or off campus. Students gain in-depth experience and submit a report on all their internship activities. (variable credits) Prerequisites: consent of the Department and the Academic Standards Committee.

ESS 499 Directed Study: Cultivating Higher Potentials of Body and Mind through Exercise and Sport
(variable credits) Prerequisites: consent of the Department faculty and the Academic Standards Committee

FOR 103 Health-Related Fitness: Physical Activity to Promote Longevity and Fitness for Life
This course is taught by faculty from the Department of Exercise and Sport Science. See MUM Catalogue “FOREST ACADEMY PROGRAM AND GRADUATION REQUIREMENTS” for a course description. (2 credits)

FOR 103 Base Camp: Creating Harmony within the Diversity of Students, Faculty, and Administration
Students, faculty, and staff go to a wilderness area for a camping trip to help build friendship, leadership and understanding between all three groups with the goal of establishing cooperation for future endeavors. Seasonal activities include skiing, skating, canoeing, biking, and hiking, as well as learning outdoor skills. (1 credit)

HUM 232 Discovering Other Countries: The Land and Its People
This Rotating University course introduces the history, culture, and politics of countries such as Italy, Greece, Spain, and South Africa. The focus varies from course to course, but with an emphasis on local sustainability, culture, and food. (variable credits)

PHIL 101 Introduction to Philosophy
This course will focus on the great Western philosophers, including Plato, Aristotle, Descartes, Leibniz, Kant and Hegel. It will encourage students to develop their own understanding of the traditional philosophical questions, such as: Does God exist? How is free will possible in a universe governed by natural laws? Is there purpose inherent in nature? What is the relationship between ethical behavior and doing what is best for oneself? Students will develop their ability for close reading of philosophical texts, as well as the ability to think critically and creatively about the most profound, perennial questions. (4 credits)
DEPARTMENT OF ART

FACULTY

• James Shrosbree, MFA, Chair, Professor of Art
• Matthew Beaufort, MA, Associate Chair, Associate Professor of Humanities
• Dale Divoky, BFA, Associate Professor of Art
• Sean Downey, MFA, Associate Professor of Art
• Gyan Shrosbree, MFA, Associate Professor of Art
• Gillian Brown, MFA, Adjunct Assistant Professor of Art
• Hilary Nelson, MFA, Visiting Assistant Professor of Art
• Mara Winningham, MFA, Adjunct Assistant Professor of Art

INTRODUCTION

The Department of Art is dedicated to nurturing the deepest values of creative expression in our students. Students discover their own inspiration by accessing the unbounded source of creativity within themselves. The department provides a uniquely life-supporting environment in which the students’ personal inspiration can attain artistic realization. Living within this extraordinary community, students discover their artistic genius and begin to unfold their full potential.

Our arts programs are unique. They integrate practical training in studio art, profound intellectual understanding, and the progressive development of consciousness — the basis of all creativity. The fine arts are the creative self-expression of consciousness, articulating the awareness of the artist and enlivening the awareness of the audience. To realize the finest values of art, the artist and the viewer must experience the most expanded values of consciousness. While mastering the skills and knowledge of art, our students become well acquainted with consciousness and the mechanics of creativity, thereby enjoying more effortless, stress-free, and spontaneous creative expression.

The faculty support students’ enlivened creativity by encouraging them through their successes — a teaching method that strengthens the students’ natural inspiration. Our faculty, who exhibit and lecture around the country, have been recognized for excellence in both art-making and teaching. Our students have been accepted into top-level graduate programs in art including Cranbrook Academy of Art, Yale University, the University of Iowa, and the University of California at Davis. Others have gone on to successful careers as artists, educators, art therapists, arts administrators, designers, animators, and in video production, advertising, and Web design.
Traditionally, the arts have celebrated the most glorious possibilities for human life. The arts have articulated high ideals of beauty, harmony, and wholeness. These ideals are now beginning to become realities of creative expression and daily life for students at Maharishi University of Management.

**Comments on our faculty and students by a Visiting Evaluator**

Aribert Munzner, Professor Emeritus at the Minneapolis College of Art and Design, observed, “The faculty is a totally dedicated, professional community that reveals sensitivity and understanding of every student’s needs, exhibits professional competency in each of their respective areas. . . . The students are profoundly committed, authentically motivated, genuinely curious. . . . They emerge into the world with the skills necessary for a career in art and even more important — as individuals with an awareness of the opportunities for positive contributions to humanity.”

**Programs Offered**

- Minor in Art
- Bachelor of Arts (BA) in Art
- Bachelor of Fine Arts (BFA) and BFA Graduate School Preparation Track
- Special one-year BFA program for students who already have a BA in Art
- Post-Baccalaureate Certificate in Art for students who already have a BFA
- Master of Arts in Studio Art

**SPECIAL FEATURES**

Students explore their creativity in the most refined fields of personal expression, mentored by accomplished faculty artists who are experts in guiding aspiring artists.

Students:

- Interact with visiting artists from around the country and with established artists in the Fairfield area who have given the town a regional reputation as a center for the arts.
- Explore the greatest art of the past and present in the light of consciousness, and gain inspiration to develop their artistic genius.
- Take field trips to major cultural centers such as Chicago and New York and explore the universal and unique values of consciousness expressed in the art of many cultures.
- Develop tools for self-evaluation and career development, forming the basis for professions in the arts.
**Painting and Drawing Courses**

- Explore painting and drawing as a special means to see and express one’s self in relation to the world.
- Explore the nature of painting — its forms, tools, materials, and processes.
- Develop a deep knowledge of the language of painting and the overarching visual principles that connect all forms of painting.
- Learn from in-depth interactions with faculty in small classes.

**Ceramics Courses**

- Relate the knowledge and experience of ceramics to the growth and evolution of one’s own consciousness.
- Develop knowledge of materials, processes, and traditions that have fostered the creation of clay pottery, sculpture, and tile.
- Work in a fully equipped studio, which allows students to develop experience with a variety of methods of working in clay — including handbuilding, wheelthrowing, and moldmaking. Firing methods include low-fire, high-fire stoneware, soda, and raku.

**Sculpture Courses**

- Learn the underlying principles that apply to the space/mass, proportion, size, scale, and light, and the formal language that is fundamental to sculpture.
- Gain knowledge of materials, structure, and forming methods.
- Address a range of topics that include knowledge of the figure, surface possibilities in relation to form, narrative development, installation, and site-specific outdoor work in nature.
- Use facilities for plaster, clay, wood, and metal work.

**DEPARTMENTAL REQUIREMENTS**

**Programs Offered**

Students may take a minor in Art, a BA in Art, a BFA, or an MA in Studio Art. The 48-credit BA program allows students to also take another major for a double major. For students who want to create a foundation for a career in the arts, the art faculty highly recommend the Bachelor of Fine Arts (BFA), a professional degree program. In their final spring semester, BFA students do independent studio work in one of these areas: painting and drawing, ceramics, or sculpture. Students may choose to do an additional 3-
8 months of independent studio work in the BFA Graduate School Preparation Track. The Master of Arts in Studio Art is for students who want the time and structure to develop their work to sustain an independent practice or to prepare a portfolio to apply to an MFA program.

During the semesters of specialization, students work to develop a direction with their work that is instrumental in finding their own voice as an artist. Under the guidance of faculty, students complete a body of work that can lead to graduate school or a career path in the arts. During the BFA and MA, students also interact with a Visiting Reviewer (an art professor from another university) and with visiting artists.

Students who have a BA in Art from Maharishi University of Management or another university may take a special program that allows them to upgrade their BA to a BFA degree. The Art Department also offers a Post-Baccalaureate program for BFA students or BFA graduates. The Post-Baccalaureate, which can be taken for one or two semesters, offers students an opportunity to further their artistic development while preparing for graduate school in a lively studio environment with faculty guidance.

**Entrance Requirements for the Bachelor of Arts (BA) in Art**

To qualify for the art major and to remain in the major, students need to receive a grade of B- or higher in art classes. Students with a grade lower than B- may be put on probation by the Department of Art to motivate them to improve their performance.

**Graduation Requirements for the Bachelor of Arts (BA) in Art**

To graduate with a BA in Art, students must successfully complete all general requirements for the bachelor’s degree (please refer to “Bachelor’s Degree Requirements” in “Academic Policies”) and 48 credits of course work as follows:

8 credits from the following to be taken in the first or second year:
- FA 205 Principles of Design (4 credits)
- FA 301 Drawing 1 (4 credits)
- FA 311 Painting 1 (4 credits)

plus 12 credits from the following courses, one of which must be FA 385 or FA 386 (highly recommended that one of these be taken in the final year of study):
- FA 203 Understanding Art (4 credits)
- FA 381 Prehistoric to Medieval Art (4 credits)
- FA 382 Renaissance to Contemporary Art (4 credits)
- FA 385 Modern Art, 1880–1945 (4 credits)
• FA 386 Modern and Contemporary Art, 1945–2000 (4 credits)

*plus 4 credits of either:*
• FA 341 Ceramics 1 (4 credits)
• FA 351 Sculpture 1 (4 credits)

*plus 4 credits taken in the final year of:*
• FA 475 BA Portfolio and Final Project (4 credits)

*plus 20 credits (5 courses) of electives in art*
The 20 credits of electives may include up to 12 credits from courses in Creative Arts and New Media, approved by the Art Department undergraduate academic advisor.

**Entrance Requirements for the Bachelor of Fine Arts Degree**

Students interested in the BFA program apply to the Department in the middle of the junior year or the beginning of the senior year and submit a portfolio of previous course work. Admission to the BFA program is based on the application proposal, portfolio, and a GPA of 3.0 in art classes. Applications are available from the Art Department administrator. Continued participation in the program requires a 3.0 GPA or higher in art classes.

**Graduation Requirements for the Bachelor of Fine Arts (BFA)**

To graduate with the standard BFA in Art, students must successfully complete all general requirements for the bachelor’s degree (please refer to “Bachelor’s Degree Requirements” in “Academic Policies”) and 80 credits of course work as follows:

*12 credits of these courses to be taken ideally in the first or second year:*
• FA 205 Principles of Design
• FA 301 Drawing 1
• FA 311 Painting 1

*plus 12 credits from the following courses, one of which must be FA 385 or FA 386 (highly recommended that one of these be taken in the final year of study):*
• FA 203 Understanding Art (4 credits)
• FA 381 Prehistoric to Medieval Art (4 credits)
• FA 382 Renaissance to Contemporary Art (4 credits)
• FA 385 Modern Art, 1880–1945 (4 credits)
• FA 386 Modern and Contemporary Art, 1945–2000 (4 credits)
plus 4 credits of either:
• FA 341 Ceramics 1
• FA 351 Sculpture 1

plus 4 credits of either:
• FA 302 Drawing 2
• FA 304 Drawing Studio

plus 4 credits of this art theory course:
• FA 414 Artist as Philosopher (Critically Reading Visual Experience)

plus 28 credits of art electives
Up to 16 credits in Creative Arts and New Media approved by the Art Department undergraduate academic advisor may be counted toward the 24 elective credits in the BFA.

plus 16 credits to be taken during the spring semester of the senior year:
• FA 483 Intermediate and Advanced Contemporary Studio (For the BFA, this course is repeated 4 consecutive times for credit.)

BFA Graduate School Preparation Track

To graduate with the BFA Graduate School Preparation Track, students must successfully complete all general requirements for the bachelor’s degree (please refer to “Degree Requirements” in “Academic Policies”) and 99-112 credits of course work as follows:

Note: Students interested in this track should first check with their Graduation Director to make sure they can complete the track; the maximum number of credits allowed towards a bachelor’s degree is 192.

In addition to the standard BFA requirements, 12–32 more credits in:
• FA 483 Intermediate and Advanced Contemporary Studio (this course is repeated for credit)

Graduation Requirements for the Bachelor of Fine Arts (BFA) for BA Graduates

This program allows the holder of a Bachelor of Arts degree in Art to receive the BFA degree. The degree requirements are slightly different for a graduate of Maharishi University of Management who will already have taken STC 108.
Students who have a BA in Art from Maharishi University of Management must complete:
• One Forest Academy course (2 credits) in each semester they are enrolled for at least 12 credits.
• 28 credits of art courses including FA 414, a modern art history course (FA 385 or FA 386) and 16 credits of specialization as described below.

Students who do not have their BA degree from Maharishi University of Management must complete 42 credits, including the following courses:
• FOR 500 or STC 508 (4 credits) This course is the first course taken at the University and constitutes a prerequisite for all other courses.
• One Forest Academy course on the topic of Higher States of Consciousness (2 credits)
• FA 414 Artist as Philosopher: Critically Reading Visual Experience (4 credits)
• A modern art history or art criticism course (FA 385, FA 386, or FA 470) (4 credits)

plus 12 or more elective credits in Art or Creative Arts and New Media approved by the Art Department’s undergraduate advisor

plus 16 credits of specialization to be taken during the final spring semester of:
• FA 483 Intermediate and Advanced Contemporary Studio (this course is repeated 4 consecutive times for credit)

Entrance Requirements for the Post-Baccalaureate Certificate in Fine Art

This post-baccalaureate certificate program is intended to provide an intensive fine arts studio experience to BFA graduates who may need more studio time to prepare a portfolio for application to an MFA program, or who need more experience working in their own studio to develop a body of work. All students will be encouraged to achieve a level of work that reflects an in-depth exploration during the two semesters of the program.

Graduation Requirements for the Post-Baccalaureate Certificate in Fine Art

The degree requirements are slightly different for a Maharishi University of Management BFA Art graduate and a BFA Art graduate from another college or university.

Students who have a BFA from Maharishi University of Management must complete 36 credits including the following:
• One Forest Academy course (2 credits) in each semester where they are enrolled for at least 16 credits.
• FA 414 Artist as Philosopher: Critically Reading Visual Experience (4 credits)
plus 28 credits of:
• FA 483 Intermediate and Advanced Contemporary Studio (this course is repeated for credit)

Students who do not have their BFA degree from Maharishi University of Management must complete 38 credits, including the following:
• SCI 508 Graduate SCI (4 credits) This course is the first course taken at the University and constitutes a prerequisite for all other courses.
• FOR431 Higher States of Consciousness (2 credits) This is a General Education requirement
• FA 414 Artist as Philosopher: Critically Reading Visual Experience (4 credits)

plus 28 credits of:
• FA 483 Intermediate and Advanced Contemporary Studio (this course is repeated for credit)

Graduation Requirements for the Minor in Art

To graduate with a minor, students must successfully complete 20 credits of course work as follows:

4 credits of one of these courses:
• FA 141 Art of the Self
• FA 201 Art and Nature
• FA 205 Principles of Design
• FA 301 Drawing 1

plus 16 credits of art electives.

Graduate Program: Master of Arts in Studio Art

The MA in Studio Art is an intensive, two-semester exploration into studio practice that cultivates a deep connection to self. In this creative environment, faculty and peer interaction support professional and personal development. This program is for students who want to build a portfolio to apply for further graduate study in art or who want to enhance their studio practice. The MA provides the time and structure to strengthen perception, sensibility, and creative voice, resulting in a substantial body of quality work.

Studio practice is supported by a rich peer environment, engaging critiques and seminars, and ongoing interaction with experienced, caring faculty, and frequent guest artists. Faculty coach students to develop practical skills vital to the MFA application.
process, including writing an artist’s statement, photographing work, the interview process, and selecting schools that align with their work and creative aspirations.

Recent graduates of MUM art programs have received scholarships, paid teaching assistantships, or salaried fellowships at Yale University, the University of Iowa, the University of Wisconsin, Penn State, the University of California at Davis, the School of the Art Institute of Chicago, Cranbrook Academy of Art, and other prestigious graduate schools.

**Entrance Requirements for the Master of Arts in Studio Art**

Entrance requirements for applicants to the MA in Studio Art include the following:

- BFA or BA undergraduate degree with 3.0 or higher GPA from an accredited college or university
- Portfolio of 15-20 images:
  - each optimized for the Web with a screen resolution of 72 dpi
  - the portfolio should demonstrate a focused body of work
  - include a list of slides that designates: title (optional), materials, size (dimensions), date
- A 500-word statement of purpose
- Before being accepted, students will be interviewed by the faculty program directors
- For students whose first language is not English: official English proficiency test scores (either TOEFL, IELTS Academic or PTE). The test must have been taken within the last two years. Students with scores below 6.5 on IELTS Academic, 90 on TOEFL iBT or 58 on PTE will be asked to take the test again or change their program to English as a Second Language.

**Graduation Requirements for the Master of Arts in Studio Art**

To graduate with an MA in Studio Art, students must successfully complete all general requirements for the master’s degree (please refer to “Master’s Degree Requirements” in “Academic Policies”) and 32 credits of course work as follows:

10 credits of art history, art theory, art criticism, and thesis from among:

- FA 561 Modern Art (2 credits)
- FA 562 Contemporary Issues in Art (2 credits)
- FA 563 Philosophy of Art (2 credits)
- FA 564 Art Theory and Criticism, (2 credits)
- FA 585 Thesis Preparation (2 credits)
- FA 586 Thesis Exhibition (2 credits)
COURSES

Note: *Materials fees* are an estimated cost for the supplies that the student needs to provide for that course. *Lab fees* are required payments that must be made before the class begins or at the beginning of a class. *Field trip fees* are payable before the trip.

**Undergraduate Courses**

**FA 141 Art of the Self: Awakening the Transcendental Basis of Artistic Genius by Expressing the Full Range of Life in a Self-Portrait**

Students delve into the creative process with focus on the self-portrait. To learn about the history of the self-portrait, they view some of the most famous self-portraits in Western art by Dürer, Rembrandt, Van Gogh, Anguissola, Vigee-Lebrun, Kollwitz, Escher, and others. Then they create their own. Through lectures and readings on art by Maharishi, students come to appreciate art from the deepest perspective — that all art originates within the Self of the artist, and they verify this from their own experience as artists. **Topics include:** principles of design and drawing. Students learn to use and combine the simple elements of line, shape, tone, and change of direction to foster self-expression. (2–4 credits)

**FA 201 Art and Nature: Expressing Art from the Source of Natural Law through Interdisciplinary Exploration of the Beauty and Wonder of Nature**

Students gain an appreciation for the mechanics of creation as experienced in the natural world and within the realm of one’s own awareness as they engage in creative expression and the making of art. Through the experience of an ongoing interdisciplinary project, inspired by their observation of nature, students prepare a unique aesthetic presentation. **Topics include:** drawing from nature, photographing nature, design and camouflage, math in nature, music in nature, the language of nature — Sanskrit, perceptual exercises, bird-watching, and earth and environmental artists, including Goldsworthy, Long, and the Harrisons. Materials fee: $35 (4 credits)

**FA 203 Understanding Art: Culturing Aesthetic Sensibility by Appreciating Art as an Expression of the Heart, Mind, and Universal Self**

Art is a crystallization of consciousness. This course cultures a deep appreciation for visual art through intellectual knowledge and direct experience. Lectures, discussions, readings, and workshops reveal that art is structured in the multilayered consciousness of the artist and the audience and in the collective consciousness of the culture. The greatest
art works give glimpses of the goal of all creativity — the universal Self in higher states of consciousness — and thus continue to inspire people throughout time. **Topics include:** the fundamentals of art — creativity, form, function, and symbolism; the great achievements of sacred art; archetypes of consciousness in art; and traditional and contemporary methods of interpreting and evaluating art. Course includes a field trip to Chicago or other major art center. Field trip fee: $250; Textbook and materials fee: $15 (4 credits)

**FA 204 CCTS The Quest for Self-Knowledge — The Hero and Heroine’s Journey as the Development of Consciousness**

Explore your own quest for self-knowledge in the light of the wisdom shared in mythology, philosophy, and psychology. Drawing upon the insights of scholars of myth like Joseph Campbell, we will identify the universal stages of the quest archetype: the hero or heroine’s journey as they evolve to higher states of awareness. We will culture critical thinking skills by analyzing ancient and modern world views, theories of consciousness and their applications, myths and movies, and your own life. In the culminating course project, create and potentially perform your own mythic stories. **We will explore these questions:** What is the philosopher's quest? What can psychology reveal about the mind? How and why do archetypes transform consciousness? How can we apply ancient archetypes to modern life? *This is a writing intensive course.* Textbook and materials fee: $30 (4 credits)

**FA 205 Principles of Design: The Quest for Balance and Unity in Art and Life**

This course provides the knowledge and practical experience of how visual elements are organized by principles universal to the fine and applied arts. **Topics include:** examining and applying design principles and vocabulary such as figure/ground, interdependence, symmetry, rhythm, shape, and texture; understanding how these principles and their components apply to the scope of the visual arts, including drawing, sculpture, ceramics, photography, graphic design, architecture, fabric design, and landscaping; and understanding and expressing how design principles can be correlated to the balance and order of the universe and to individual life and living. (4 credits)

**FA 212 The Design Continuum – Exploring the Sequential Unfoldment of Consciousness in 3D**

Design Continuum is a course that studies the dynamics of three-dimensional design. The course approaches three-dimensional design with thoroughness and sensitivity to broaden students' understanding and creativity of form and space (and their relationship) and the design principles that can be applied to all of the three-dimensional arts, such as sculpture, ceramics, interior design, landscape design, etc. The media and methods of study emphasized in studio work will include paper, clay, plaster, cardboard, wood, and
wire – used to explore the additive, subtractive, constructive, etc., creative processes, thus creating monolithic, concave/convex, penetrated, planar, and opened/closed linear forms. Lab fee: $45 (4 credits)

**FA 301 Drawing 1 — Drawing from Within: Engaging the Principles of Observation through the Action of Drawing**

In this course, students develop powers of observation and imagination, abilities that are vital for all the arts. Students focus on establishing the use of principles of drawing through observational methods. **Topics include**: still life, figure drawing, interior and landscape. Art majors take drawing courses as they advance through the curriculum. May be repeated for credit with permission of the instructor, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course. Materials fee: $35 (4 credits)

**FA 304 Drawing Studio: Extending the Boundaries of Perception**

This course addresses experimental approaches to drawing. Through a structure that approaches drawing as a tool to respond to our physical environment, we will explore, expand, and develop or ‘redraw’ our personal perception. Expanding the definition of drawing in the context of contemporary art encourages the development of a personal visual vocabulary while becoming a platform for the exploration of materials and content. Using unconventional and imaginative resources to construct both 2-Dimensional and 3-Dimensional drawings, students will have open assignments that introduce various ways and material to develop a visual story. Students will have the opportunity to experiment with installation, wearable drawings, performance, and the body. Materials fee: $45

**Prerequisites**: at least one of the following courses: FA 205, FA 301, FA 302, FA 311, FA 312, FA 353 and consent of instructor.

**FA 308 Screenprinting: Expanding Markmaking to Explore Multiple Images of Consciousness**

Students explore images through silkscreen printing. The emphasis is on learning the process and developing possibilities with a multiple image derived from drawing, painting, collaging, and printmaking. Students will develop new ways of making a mark through printing, a tool that can be integrated into each of their studio practices. Materials fee: $70 (4 credits)

**FA 311 Painting 1: Growth of the Artist through Refinement of Perception and Enhancement of the Ability to Discriminate and Integrate**

Painting expresses the artist’s connection with the deep laws fundamental to seeing and creating visual images. Students are immersed in the fundamentals of drawing and painting from nature and a variety of other subject matter. The curriculum addresses the
students’ development of formal and technical skills along with a conceptual and critical understanding of the language of painting as preparation for independent studio work. May be repeated for credit with permission of the instructor, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course. (4 credits)

FA 317 Painting Studio—Inside/Outside: Exploring Alternate Viewpoints of Consciousness

Painting expresses the artist’s connection with the deep laws fundamental to seeing and creating visual images. Students are immersed in the fundamentals of drawing and painting from observation, with a focus on moving fluidly between painting outdoors in the landscape, and then applying ideas and observations gathered outdoors to studio-based paintings (and vice versa). The curriculum addresses the students’ development of formal and technical skills along with a conceptual and critical understanding of the language of painting, as well as the particular issues, philosophies, and history associated with landscape painting. May be repeated for credit with permission of the instructor, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course. (4 credits) Prerequisites: a previous art course and consent of the instructor

FA 340 Ceramics Studio: Shaping the Unmanifest (see specific topics below)

**Fall 2019:** Hand-building in low-fire earthenware clay, drawing inspiration from ancient origins to contemporary masters

**Spring 2020:** Exploring the relationship between surface and form in thrown and hand-built forms using high-fire stoneware clay

**Fall 2020:** Addressing the image on hand-built, low-fire earthenware forms

**Spring 2021:** Exploring the limits of function in hand-built and thrown high-fire stoneware forms

Students at all levels in ceramics will increase their studio skills related to forming, understanding glazes and other surface possibilities, plus various firing methods. Faculty and peer interaction is structured to support the integration of method, meaning, and function (depending on the individual student's need) to express the inner value of consciousness in matter in this medium. In some studios, wheelthrowing opens a new dimension of experience for the student potter. The challenge to center and form a pot while the clay is spinning through the hands leads to a synchronicity that powerfully connects potter and pot, awareness and matter, in the process of creation. Students are exposed to the traditions and history of ceramics that continue to emerge worldwide. Lab Fee $55 (4 credits) Prerequisite: Suggested one of these but not required: FA 301 or FA 311 or FA 353
FA 353 Figure Drawing and Sculpture: Embodying the Fullness of Consciousness
This course emphasizes sculpting the human figure, which has the potential to embody
the fullness of consciousness within the cosmos. Students continue to explore the
principles that structure form. In addition, they develop skills and gain the technological
know-how for sculpting, mold making, casting, making limited editions, and mass
production. Topics include: drawing the figure (contour and tonal); principles of three-
dimensional design; making an armature; sculpting the figure in clay; working from
observation; form/space relationship; proportion; anatomy (skeletal and musculature);
mold-making, casting slip (liquid clay); the history of figure sculpture. Materials: clay,
plaster and slip. Materials fee: $40 (4 credits)

FA 375 Intermediate Studio: Finding a Personal Voice
Students have the opportunity to build on the experience of previous courses through the
further development and deeper understanding of their own expression. The focus of this
course is to allow the student to form a strong personal direction and develop a personal
conceptual framework in their studio exploration. Topics include: exploring different and
advanced methods and materials, research in the history and current developments in art
in their area. Lab fee: $45 (4 credits — may be repeated for credit, subject to satisfactory
progress in the previous course and a clear plan for the progression of learning in the
subsequent course) Prerequisites: Previous art courses at MUM and recommendation of
art faculty.

FA 381 Prehistoric to Medieval Art: The Quest for the Divine in Sculpture,
Painting, and Architecture
Explore the history of consciousness through the history of western art. We will enjoy
great achievements of art and architecture from prehistoric cultures, Egypt, Greece,
Rome, the Middle Ages, and later periods. In each of these cultures, the quest for the
divine created art that continues to inspire human consciousness. We will analyze how
modern artists are influenced by this art. We will explore these questions: How did sacred
sites connect humanity with the cosmos? How are masculine and feminine modes of
awareness expressed in mother goddesses, patriarchal gods, Mother Mary, and modern
art? How do the styles of Greek art mirror stages in the evolution of consciousness? How
does Christian architecture seek to create a heavenly kingdom on earth? A highlight of
the course is a 4-to-5-day field trip to art centers such as St. Louis and Kansas City. Field
trip fee: $250 (4 credits)
FA 382 Renaissance to Contemporary Art: The Search for Integration in Art and Life from the Renaissance to Modernism to Postmodernism
Delve into the most inspiring creations of Western art and architecture from the 1400s to the present. Discover how artists have expressed both sacred and secular values in their quest for perfection in art and fulfillment in life. We will look at this epoch’s art in terms of four cultural worldviews and visual paradigms: Idealism/Naturalism (as begun in the Renaissance), Modernism, Deconstructive Postmodernism, and Constructive Postmodernism—an art of expanded awareness. We will explore these questions: How are art and consciousness transformed in each paradigm? What artists, styles, cultural values, and aspects of awareness typify these major paradigms? How has the art of the past influenced modern artists? A highlight of the course is a 4 day field trip to a major art center such as Chicago. Field trip fee: $250 (4 credits)

FA 385 Modern Art, 1880-1945: The Search for Transcending in Art, Culture, and Consciousness
Enjoy fascinating stories, key works, and iconic figures of modern art, from its origins in Post-Impressionism to the beginnings of the New York School. We will explore an array of provocative objects—from paintings that revolutionized the conventions of representation to works that are completely abstract—by such artists as Constantin Brancusi, Alberto Giacometti, Marcel Duchamp, Henri Matisse, Pablo Picasso, and Georgia O’Keefe. Each style is related to how art enlivened transcending in the consciousness of the artist and the audience, and the collective consciousness of the culture. This is a writing intensive course with a research essay. Course fee: $20 Field trip fee: $25 (4 credits)

FA 386 Modern and Contemporary Art, 1945-2000: Exploring Possibilities for Art and Consciousness in Modern Culture
Explore major artists, artworks, and movements in Western art that transformed the art world after World War II. Examine the emergence of the New York School, Neo-Dada, Pop art's flowering in mass consumer society, and Minimalism's formal refinement. Then reflect on Conceptual art's fundamental questioning of art, the development of multimedia artistic practices and performance art, the influence of identity and gender politics on art, and the search for an art of expanded awareness. Each phase of art is interpreted in terms of how art reflects the consciousness of the artist and the audience, and the collective consciousness of the culture. This is a writing intensive course with a research essay. Course fee: $20; Field trip fee: $25 (4 credits)
FA 398 Fieldwork/Internship: Applying Studio Knowledge in Practical Situations to Strengthen Action, Achievement, and Fulfillment
Students study or apprentice with an artist or art-related professional or facility, with the approval of their major advisor. Students document their experiences in sketchbooks and journals, and connect what they are learning to their knowledge and experience of consciousness. Fieldwork must be completed at least two months before graduation. (4 credits) Prerequisites: consent of the art faculty and Academic Standards Committee

FA 399 Art Directed Study: Knowledge Is Structured in Consciousness
Directed study courses are offered in rare circumstances to advanced and academically self-sufficient students who need a course to graduate and are unable to take the regular course due to extraordinary circumstances. (variable credits) Prerequisites: consent of the art faculty and the Academic Standards Committee

FA 414: Artist as Philosopher — Critically Reading Visual Experience: Approaching an Integrated Whole
Students critically analyze, interpret, and contextualize art in terms of the history of art, art theory, and culture. They study some of the most significant writings by modern art critics, theorists, and artists. They then complete and refine a research essay contextualizing a modern artist or a contemporary issue and relating art and ideas to the larger context of consciousness. Textbook fee: $75 (4 credits) Prerequisite: BFA student or consent of instructor

FA 475 BA Portfolio and Project
The BA Portfolio and Project, taken in the final semester, completes the BA degree in art. Guided by faculty, BA candidates work independently in the studio to create a series of work. They then photograph their work to create a digital portfolio. Students also keep a journal and reflect on their experience studying in the Department of Art. The portfolio, journal, and written reflection form the basis of a 7-minute oral presentation sharing the student’s growth of creativity, art, and consciousness while at MUM.

FA 482 Teaching Practicum
In this class advanced art students assist a faculty member in teaching a studio or art theory and criticism course. Responsibilities may include: guiding discussions, reviewing essays of other students and giving feedback, assisting in studio critiques, preparing course materials, doing research and writing essays. The student will write a short essay reflecting on their experience in the light of the growth of communication skills and consciousness. (4 or more credits) Prerequisites: consent of the instructor and Department Chair
FA 483 Intermediate and Advanced Contemporary Studio: Connecting the Parts to the Whole
Advanced and intermediate level students work with a studio structure that allows them to go deeply into their work at the late middle and final stage of their degree requirements (generally senior year). This course is designed to forward studio work by capitalizing on students’ strengths through intensified pure studio time coupled with personal contact with faculty. During these months the student connects thinking with action in the artist’s statement and receives direct support for presentation, installation, and documentation of thesis work. The cost of materials will vary with the student. (4 credits — this course is repeated for credit) Prerequisite: For BFA students only or with specific consent from the instructor.

Graduate Courses

FA 561 Influences of Modern Art
This seminar includes critiques, readings, discussions and short written responses to ask questions and stimulate the students’ interaction in a pivotal conversation with visual work made primarily in the period from the latter part of the 19th century to the 1960’s. (2 credits)

FA 562 Contemporary Issues in Art
Students engage with readings, discussions, videos and written responses that develop a critical dialogue related to contemporary visual work. Ultimately this platform creates a link to critiques of student work in progress. (2 credits)

FA 563 Philosophy of Visual Art
The practice of art can be approached as philosophy that is applied visually. Inquiry into the thinking that is behind, and in front of, the artist’s motivation to work is a means of finding one’s own reason to create physical work. Critical discussions of ongoing work supported by readings, written responses and related research are part of this course. (2 credits)

FA 564 Art Theory and Criticism
This course links the analysis of art with the making of art. This course focuses on exercises that engage the artist as viewer and connect with readings and discussions that are specific to viewpoint. (2 credits)

FA 570 Advanced Contemporary Studio
This ongoing studio sequence is the primary component of the MA in Studio Art program. The course supports the students’ development of process, structure and concepts as they emerge in the day-to-day evolution of their work. (6 credits)
FA 585 Thesis Preparation
Students spend time organizing, photographing and in critiques that challenge and support their task of congealing a body of work and supporting it verbally. (2 credits)

FA 586 Thesis Exhibition
Students install and refine their thesis work in a final exhibition with feedback from peers and faculty. (2 credits)
COLLEGE OF BUSINESS ADMINISTRATION

FACULTY

• Dennis P. Heaton, EdD, Dean of the College of Business Administration, Professor of Management
• Victoria Alexander Herriott, JD, LLM, Chair of the Department of Management, Professor of Law and Government, Dean of Faculty
• Andrew Bargerstock, PhD, CPA, Professor Emeritus of Accounting
• Scott R. Herriott, PhD, Professor of Management, Provost
• Jane Schmidt-Wilk, PhD, Professor of Management, Dean of Teaching and Learning
• Yunxiang Zhu, MBA, DWP honoris causa, Professor of Management, Vice-President of Asian Expansion
• Kenneth Cavanaugh, PhD, Emeritus Professor of Applied Statistics
• Anil Maheshwari, PhD, Associate Professor of Management Information Systems, Director of the MBA track in Information Systems
• Maxwell Rainforth, PhD, Associate Professor of Statistics
• Sabita Sawhney, PhD, Associate Professor of Management, Director of the PhD Program
• Ripunjay Bhargava, BA, LLB (Hons), LLM, Assistant Professor of Law and Government
• William W. Graff, MBA, CPA, CMA, Assistant Professor of Accounting
• Ayako Huang, PhD, Assistant Professor of Management, Director of the MBA track in Sustainable Business
• Zhuo Jiang, MBA, CPA, Assistant Professor of Accounting
• Bruce McCollum, PhD, SRIC, Assistant Professor of Management
• Phillip Nicholas, MBA, CPA, Assistant Professor of Accounting and Sustainable Business
• Naghmeh Sabermajidi, PhD, Assistant Professor of Marketing
• Tejasvi Sharma, MBA, PhD, Assistant Professor of Sustainable Energy Systems, by courtesy
• HaiYan Song, PhD, Adjunct Assistant Professor of Management
• Liang (Kevin) Sun, MBA, CFA, FRM, Assistant Professor of Finance
• Richard Thompson, PhD, Assistant Professor of Management
• David Weisman, MBA, MA, MFA, Assistant Professor of Business Administration, Director of the Undergraduate Program
• Naveed Abbasi, MBA, Instructor of Accounting, Director of the MBA tracks in Accounting and SAP-Finance
• Viola Bhargava, Diplom-Engineer, MBA, Instructor of Management
• Clifford Rose, BA, Instructor of Business Administration, Director of the Concept to Market Institute
• Ye (Lin) Shi, MBA, Instructor of Accounting
• Sheri Shulmier, Lecturer in Management and Career Strategies
• Rachel Goodman, PhD, Adjunct Professor of Management
• Stephen Harper, MBA, Adjunct Professor of Marketing
• Thomas Palladino, MA, Adjunct Professor of Management
• Edi Shivaji, PhD, Adjunct Professor of Information Systems
• Stuart Valentine, MBA, Adjunct Professor of Finance

INTRODUCTION

The College of Business Administration, through the Departments of Management and Accounting, offers a Bachelor of Arts in Business Administration, a Master of Business Administration, a Master of Science in Sustainability Measuring and Reporting, a Master of Science in SAP Finance, a Master of Arts in Workplace Conflict Resolution, and a PhD in Management. Each of these degree programs is oriented toward the achievement of specific student learning outcomes through active learning projects that take the student into the real world of business.

The bachelor’s program develops the knowledge needed by an entrepreneur and culminates in the presentation of a business plan developed by the student. In the MBA program, students apply their knowledge to improve the performance of an organization through a specialization in sustainable business with options for additional specialization in business process improvement, accounting, human resource development, and leadership and conflict resolution. The specialized MA and MS programs are short degrees focused on specific subfields such as enterprise resource planning, workplace conflict resolution, and sustainability measurement and reporting. The PhD in Management prepares researchers who can enrich the understanding and practice of sustainable business with new knowledge about the highest levels of performance and flourishing for the individual, the team, the organization, and society.

All of these programs are taught as Consciousness-Based management, whose core is the knowledge of the total intelligence of nature and its organizing power. By studying the theoretical and practical aspects of Consciousness-Based management, including the Transcendental Meditation program, students personally grow in better health, clearer thinking, greater creativity, moral development, and wisdom. They integrate the study of contemporary developments in the discipline with the knowledge of the Science and
Technology of Consciousness and with the principles that underlie the structure and function of the world around them.

Research has shown that a natural result of the practice of the Transcendental Meditation technique is an appreciation of one’s environment and more harmonious interpersonal relationships. As a result, students in the business department naturally have a broadened awareness of their place in the world and understand the importance of making a positive, sustainable contribution to society.

SPECIAL FEATURES OF THE COLLEGE OF BUSINESS

• **Creative Entrepreneur Program** — The programs and courses of the College of Business Administration are oriented around real-world, active learning projects. In the Creative Entrepreneur track of our BA and MBA programs, creative thinkers learn how to stimulate, recognize, and develop innovative, socially and environmentally responsible ideas — and transform them into reality.

• **Specialization in Enterprise Resource Planning (ERP) – SAP Finance** — This new specialization in the MBA was designed to give students hands-on experience with one of the world’s leading integrated information system platforms. Students learn about powerful reporting and data analysis tools for decision-making including the use of SAP BusinessObjects enterprise software. Courses prepare students for SAP certification exams and for professional positions.

• **Online Degree Programs** – The MBA, MS, and MA degree programs of the College of Business Administration can be taken completely online.

• **Real World Experience** — Students in the masters programs consult with local businesses and organizations providing improvements to their business processes and measuring and improving their sustainability. These projects often lead to future employment.

• **Ethics and Sustainability** — The curriculum explores issues of ethical integrity, social responsibility, and environmental sustainability to prepare business leaders to be stewards of society and the environment.

• **Consciousness-Based Management** — Management training in the College of Business Administration makes use of the latest discoveries about how natural law administers all levels of creation and trains students to gain the support of nature, good fortune, to enable them to most easily fulfill their goals.

• **Enlightenment and World Peace** — Maharishi University of Management is the leading university in the world specializing in development of human consciousness. It
is an ideal place to learn how to create and study the transformation of organizations and society through developing and utilizing full human potential.

**BACHELOR OF ARTS IN BUSINESS ADMINISTRATION**

Courses in the business curriculum encompass an international perspective to help prepare graduates to function effectively in the world’s varied cultural and business settings. Students are trained to be broad thinkers, harmonious contributors to teams, and experts in creative change. The undergraduate courses are grouped into a core curriculum and two tracks. In the **Core Curriculum**, students learn practical skills for successful functioning in the modern world as well as gain an understanding of the legal, economic, and social environment of business life. In the **Accounting Track**, students develop the knowledge and skills to become professional accountants. In the **Creative Entrepreneur Track**, students gain knowledge of starting and growing companies by studying management and creating business plans.

**Graduation Requirements for the Bachelor of Arts Degree in Business Administration**

To graduate with a BA in Business Administration, students must successfully complete all general requirements for the bachelor’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) As part of these requirements, 52 credits of course work in business administration must be completed in the following modules:

**Required: Core Curriculum courses** (34 credits)
- MGT 346 Career Strategies (2 credits)
- MGT 201 Business Communication Skills (4 credits)
- MGT 222 CCTS: Economics for Entrepreneurs (4 credits) *This satisfies the University’s Critical and Creative Thinking Seminar requirement.*
- MGT 314 Statistics for Business and the Environment (4 credits) or MGT 307 Numerical Methods for Decision-Making (4 credits)
- MGT 316 Managerial Accounting (4 credits)
- MGT 350 Financial Management (4 credits)
- MGT 378 Marketing Management (4 credits)
- MGT 428 Business Law and Ethics (4 credits)
- MGT 429 Human Resource Management (4 credits)

*plus 16 credits in one of the following Tracks:*

**Creative Entrepreneur Track**  
Choose 12 credits from the following courses:
• MGT 200 Growing a Business
• MGT 230 The Successful Entrepreneur (4 credits)
• MGT 336 Social Entrepreneurship (4 credits)
• MGT 341 Management Information Systems (4 credits)
• MGT 382 Management and Organization (4 credits)
• MGT 405 Cross-Cultural Communication (4 credits)
• MGT 431 Creative Entrepreneur I (4 credits)
• MGT 481 Internet Marketing (4 credits)
• MGT 484 Mediation and Negotiation (4 credits)
• MGT 494 Socially Responsible Investing (4 credits)
• MGT 498 Internship in Management (variable credits)

*plus the following capstone course:
• MGT 432 Creative Entrepreneur II (4 credits) prerequisite MGT 431

**Accounting Track**

12 credits of the following required courses:
• MGT 315 Financial Accounting (4 credits)
• MGT 440 Intermediate Accounting I (4 credits)
• MGT 441 Intermediate Accounting II (4 credits)

*plus 4 credits from the following elective courses:
• MGT 341 Management Information Systems (4 credits)
• MGT 495 Internship in Accounting (4 credits)
• MGT 496 Preparation for CPA/CMA Exam (4 credits)
• MGT 5131 Taxation (4 credits)
• or a graduate level accounting course with permission of the instructor

**Business Electives: at least 2 credits from the following:**
• Any course with an MGT designation not used to meet a Core or Track requirement, *or*
  • FOR 437 Becoming a Leader (2 credits)
  • FOR 405 Cross-cultural Communication (2 credits)
  • FOR 414 Becoming a Professional Human Being (2 credits)
  • FOR 422 Human Relations in a Diverse Society (2 credits)
  • FOR 423 Team Building and Performance (2 credits)
  • FOR 424 Professional Success (2 credits)
  • FOR 429 Maharishi’s Principles of Success (2 credits)
  • FOR 438 Ideal Relationships (2 credits)
  • FOR 463 Ramayana (2 credits)
Students may interview for business positions and earn up to 16 elective credits of internship toward their bachelor’s degree with the approval of the BA program director or department chair. Students at Maharishi University of Management have a particular advantage in the competition for internships nationwide. The block calendar of month-to-month study makes it easy for a student to take off one or more months and work full-time on a business project at any time of the year. Such internships are an opportunity for students to apply the knowledge gained in the Business Administration major in a workplace setting.

**Graduation Requirements for the BA in Applied Arts and Sciences with Specialization in Business Administration**

Business students have the option to graduate with a Bachelor of Arts in Applied Arts and Sciences, taking a specialization in business administration. The requirement is 32 credits of course work in business and an AAS Senior Capstone project related to business. Please refer to the Department of Applied Arts and Sciences for details on other requirements.

**Graduation Requirements for the Minor in Business Administration**

To graduate with a minor in business, students must complete 20 credits of course work in business including MGT 200 Growing a Business.

**MAST ER OF BUSINESS ADMINISTRATION DEGREE**

The MBA is a general management degree requiring a minimum of 40 graduate credits. For students with no prior study in business, the MBA includes 18 credits of additional study in the various business functions: managing people and organizations, accounting, finance, marketing, operations, management information systems, and business law, for a total of 58 credits.

Maharishi University of Management offers the MBA degree in various formats for different types of students. Those who take the MBA in the Day Format program at the Fairfield campus may earn the MBA in a variety of specialization tracks. Other formats available on the Fairfield campus are an evening/weekend MBA program and a unique MBA program for professional accountants. The University also offers options for online study and an accelerated MBA program for experienced professionals, managers and leaders.

**MBA Specializations**

Because society increasingly recognizes the importance of sustainability, new opportunities abound, but an entrepreneurial approach is necessary to recognize and
implement them. The curriculum of Maharishi University of Management offers a range of business courses to train students to create new businesses that offer life-sustaining products and services. Issues of ethical integrity, social responsibility, and environmental sustainability are integrated into all the business courses of the Sustainable Business specialization.

The heart of the MBA consists of a specialization in one field of business study. The specializations in Sustainable Business and Accounting are offered every year. Other specializations offered in any given year will depend on student demand. Popular areas of advanced study in the recent past have been Workplace Conflict Resolution, Management Information Systems, and Human Resource Development.

**Evening-Weekend MBA Program and Online MBA Program**

This program offers an opportunity for students to earn their MBA degree while working in an internship position at Maharishi University of Management or with another institution. At the Fairfield, Iowa campus and through online education, these students take 18–26 credits per year in the evenings and on weekends rather than the normal 40 credits per year for day program students. By studying in the evenings, their internship work during the day becomes a form of curricular practical training for which they can get academic credit by integrating and applying the knowledge they learn in class. As a result, this program can be completed in three years.

**Accounting Professionals MBA Program**

The Accounting Professionals program is offered to experienced business people. It requires seven months of study on campus and two years of distance education at quarter-speed while working full-time. This 53-credit program is designed for students with a strong academic background and professional experience in accounting. The course work for the MBA builds on this background and is intended to prepare students for a career as a Certified Management Accountant (CMA) or Certified Public Accountant (CPA). A distance education component at the end of the program also gives students the opportunity to get practical experience.

**Executive MBA Program**

The Executive MBA is an accelerated version of the MBA, requiring at least 40 credits, which is designed for experienced managers and policy makers and offered typically in a cohort format. At the request of a client organization, the faculty of Maharishi University of Management can create specialized tracks of the MBA program tailored to the needs of a specific corporation, nonprofit, or public sector organization.
Entrance Requirements for the Master of Business Administration Degree

MBA Day Format Program
Applicants must have a four-year bachelor’s degree or the equivalent in formal training and work experience. Acceptance is based upon the quality of undergraduate performance, aptitude test scores, work experience and other achievements. All international students must submit official English proficiency test scores (either TOEFL or IELTS) as part of their application. The test must have been taken within the past two years. Applicants are exempt from this requirement if they have resided in the following countries for a minimum of 2 years: American Samoa, Australia, Bahamas, Barbados, Belize, Canada (except Quebec), Dominica, Grenada, Grand Cayman, Guyana, Ireland, Jamaica, Liberia, New Zealand, Trinidad/Tobago, United Kingdom and U.S. Pacific Trust.

Students with scores below 6.5 on IELTS, 575 TOEFL paper-based, 230 TOEFL computer-based, 90 TOEFL internet-based, or 58 PTE will be asked to take the Intensive English program before enrolling in degree program classes.

The Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE) is recommended but not required. Before enrolling for the first semester of the MBA, students should be familiar with principles of economics from a prior college course or from reading a principles-of-economics textbook. Knowledge of college algebra is strongly recommended for acceptance into the program. Students who do not have the prerequisite knowledge of mathematics will be required to take MGT 417 Mathematics for Business in a summer session prior to their first semester or as a foundational course.

Graduation Requirements for the MBA Degree

MBA students must complete a total of 58 semester-hour credits, consisting of 18 credits to fulfill the MBA Foundation Requirement and 40 credits in a track, a concentration, university requirements, and elective courses, as follows.

University Requirement (4 or more credits)
To graduate with an MBA, students must successfully complete all general requirements for a master’s degree, including the introductory course MVS 500 Science of Creative Intelligence (4 credits) in the first two semesters at Maharishi University of Management or its equivalent STC 508 Science and Technology of Consciousness, and one Forest Academy course in each subsequent semester a student is enrolled for 12 credits or more. (Please refer to “Degree Requirements” in “Academic Policies.”)
MBA Foundation Requirement (18 credits)
As a preparation for meeting the requirement of a track or several concentrations, each MBA student must demonstrate a basic competence in the foundational fields of business. This is demonstrated by having a total of 18 MBA course credits earned including at least 2 semester-hour credits in any four of the following seven fields:
• Marketing
• Accounting
• Finance
• Business law
• Management: organizational behavior, human resource management, leadership
• Operations or quality management
• Management information systems

Students may fulfill the MBA Foundation Requirement in whole or in part by having completed equivalent undergraduate course work at an accredited university and earned a grade of at least B.

Students who have taken graduate course work in business administration at another university and have not used those credits for a degree may apply to have those credits transferred to Maharishi University of Management and used as specialization, concentration or elective credits, up to a maximum of 20 credits.

MBA Depth Requirement: Tracks of Advanced Study (16 credits)
All MBA students in the Day format program must complete a track of advanced study. A track is a depth of study in one discipline or cross-functional field consisting of at least 16 credits. Each track includes a seminar or capstone course in which there is a substantial requirement of research and writing, designated below by an asterisk (*). Examples of five track options are shown below. A track will be noted on the student’s transcript but not on the diploma.

Sustainable Business Track
• MGT 5010 Organizational Change for Sustainability (2–4 credits)
• MGT 5165 Metrics for Sustainable Business (2–4 credits)
• MGT 5310 Sustainable Technologies (2–4 credits)
• MGT 5313 Socially and Environmentally Responsible Management (2–4 credits)
• MGT 5552 Employee Health and Wellness (2 credits)
• MGT 5681 Socially Responsible Investing (2–4 credits)
• MGT 5781 Green Marketing (2–4 credits)
• MGT 5881 Sustainable Community Development (2–4 credits)
• MGT 5952 Strategies for Sustainable Business (4 credits)
• MGT 5020 Business Process Improvement (4 credits)
• MGT 5180 Operations Management for Sustainable Business (2–4 credits)
• MGT 5240 Statistics for Business Process Improvement (4 credits)
• MGT 5090 Performance Improvement Project (4 credits)
* MGT 5312 MBA Capstone Project (2–4 credits)

**Accounting Track**
• MGT 5043 Financial Modeling and Data Analysis (2 credits)
• MGT 5130 Business Law and Taxation for Accountants (4 credits)
• MGT 5131 Taxation (4 credits)
• MGT 5141 Intermediate Accounting I (4 credits)
• MGT 5142 Intermediate Accounting II (4 credits) *
• MGT 5152 Auditing for Financial Accountants (4 credits) *
• MGT 5160 Managerial Accounting (4 credits)
• MGT 5165 Metrics for Sustainable Business (2–4 credits)
• MGT 5301 SAP Finance and Control (4 credits)
• MGT 5304 SAP Business Analytics (4 credits)
* MGT 5514 Enterprise Performance Management (4 credits)

**Enterprise Resource Planning (ERP) – SAP Finance Track**
• MGT 5301 SAP – Finance and Controlling (4 credits)
• MGT 5302 SAP – Enterprise Business Processes (4 credits)
• MGT 5303 SAP – ERP Configuration (4 credits)
* MGT 5304 SAP – Enterprise Business Analytics (4 credits)

**Entrepreneurship Track**
• MGT 5011 Social Entrepreneurship (2–4 credits)
• MGT 5101 Leadership for Sustainability (4 credits)
• MGT 5740 Marketing Research (4 credits)
• MGT 5742 Product Design and Development (4 credits)
* MGT 5300 Entrepreneurship Project (4 credits)

**Leadership and Conflict Resolution Track**
• MGT 5830 Mediation and Negotiation (4 credits)
• MGT 5820 Leadership and Management (2 credits)
• MGT 5821 Leadership and Teamwork (1–2 credits)
• MGT 5828 Communication Skills for Managers (2 credits)
• MGT 5829 Culture and Conflict Resolution (2 credits)
• MGT 5831 Negotiation in the Workplace (2 credits)
• MGT 5832 Mediation (2 credits)
• FOR 423 Team Building and Performance (1-2 credits)
• MGT 5342 Human Resource Management (4 credits)
• MGT 5834 Conflict Resolution in Teams (2 credits)
• MGT 5835 Organizational Design to Minimize Conflict (2 credits)
• MGT 5836 Difficult People and Difficult Conversations (2 credits)
• MGT 5837 Transformational Coaching (2 credits)
• MGT 5060 Advanced Topics in Conflict Resolution (4 credits)
* MGT 5838 Capstone Course in Leadership and Workplace Conflict Resolution (2 credits)

Management Information Systems Track
• MGT 5410 Information Systems Foundations (4 credits)
• MGT 5160 Managerial Accounting (4 credits)
• MGT 482 Management and Organization (4 credits)
• MGT 5412 Information Systems Strategy and Governance (4 credits)
• MGT 5470 Systems Analysis and Design (4 credits)
• MGT 5465 Big Data and Artificial Intelligence Applications (4 credits)
• MGT 5460 Business Intelligence and Data Analytics (4 credits)
• MGT 5490 Information Systems Capstone Project (4 credits)

Self-Designed Track
A student may petition the MBA program director to have a self-designed track, which must consist of a coherently themed program of regular course work and internship courses totaling 16 credits.

Electives
Any MGT course at the 5000 level may count as an elective course. With the permission of the department chair, a maximum of 8 elective credits may be taken as graduate courses in other departments of the university or as undergraduate courses designated 300-level or above in other departments of the University. MBA students who take undergraduate courses may be required to do extra work commensurate with graduate-level credit.

Graduation Requirements for Accelerated MBA Programs
Accelerated MBA programs are designed for specific types of students who have substantial training or experience in business, management, or leadership. The accelerated MBA programs therefore have special admission requirements. These programs tend to be offered in a cohort model wherein students are admitted in a batch and take the same set of courses together. The minimum of 40 credits required in the accelerated MBA programs is typically completed in two or two-and-a-half years of
study that may be part-time but may include residential or intensive classroom instruction.

An accelerated MBA program has a core foundational requirement of approximately 18 credits. This ensures that the MBA graduates will have grasped each of the principal business functions — accounting, finance, operations, marketing, and human resource management — and that they are competent in the supporting fields of business law, business research, and information systems. The core also ensures that graduates understand the foundations of management in the Science of Creative Intelligence or Maharishi’s Consciousness-Based Management.

The elective portion of an accelerated MBA will reflect the specific needs of the target group.

**Entrance Requirements for the Accounting Professionals MBA Program**

Applicants must have an undergraduate degree or equivalent and at least two years of full-time paid professional work in accounting or training in accounting that includes intermediate accounting and auditing. Preference is given to students who have an undergraduate or master’s degree in accounting, finance, or business with a grade point average of 3.0 on a 4.0 scale or second division rank. English proficiency is required and will be assessed by the Maharishi University of Management Admissions Office. All international students must submit official English proficiency test scores (either TOEFL or IELTS) as part of their application. The test must have been taken within the last two years. Students who are from American Samoa, Australia, Bahamas, Barbados, Belize, Canada (except Quebec), Dominica, Grenada, Grand Cayman, Guyana, Ireland, Jamaica, Liberia, New Zealand, Trinidad/Tobago, United Kingdom and U.S. Pacific Trust, and have resided there for a minimum of 2 years, are exempt from this requirement.

Students with scores below 6.5 on IELTS, 575 TOEFL paper-based, 230 TOEFL computer-based, 90 TOEFL internet-based, or 58 PTE will be asked to take the Intensive English program before enrolling in degree program classes.

The Graduate Management Admission Test (GMAT) is not required but is highly recommended.

**Graduation Requirements for the Accounting Professionals MBA Degree**

To graduate with an MBA degree under this option, students must successfully complete all general requirements for a master’s degree. (Please refer to “Degree Requirements” in
“Academic Policies.”) Degree requirements for the Accounting Professionals MBA program are a minimum of 57 credits.

**Academic Elements**

The Accounting Professionals MBA Program consists of three academic elements: (a) Foundational Studies that provide a solid interdisciplinary framework and subjects in key functional areas to build management capabilities, (b) Advanced Studies that provide opportunities to sharpen knowledge in financial or managerial accounting and related areas, and (c) Practicum Internship through co-operative accounting positions with business enterprises or NGOs to enhance applied business skills.

Students need a minimum of 57 credits of academic credit across these three academic elements as follows:

- **Foundational Studies (16 credits)**
  MVS 500 The Science of Creative Intelligence (4 credits) or STC 508 Science and Technology of Consciousness (4 credits), MBA Forest Academy (1-2 credits), and at least 10 credits covering at least five of the foundational subjects in business administration, i.e., marketing, accounting, finance, operations, information systems, business law, and human resource management. Also, students will take a course in Career Strategies (1 credits) that will train students about what they need to secure a curricular practical training position.
- **Advanced Studies (32 credits)**
  Students are encouraged to study for the four parts of the CPA exam (16 credits) or the two parts of the CMA exam (8 credits). The remainder of credits can be taken from additional advanced courses in topics such as finance, industry analysis, business process improvement, and lean accounting.
- **Practicum (9 credits)**
  At least 9 credits of MGT 5910 Practicum Away coincident with curricular practical training (CPT) in a full-time accounting-related position.

**Entrance Requirements for the MBA in Information Systems**

Applicants must have a minimum of an undergraduate degree in computer science, engineering, science, business management, or information systems with a 3.0 or higher grade point average. Applicants should have at least 3 years of work experience in the IT field in a technical or team leadership role. Applicants should be currently working and demonstrate strong interest in achieving this degree.
Graduation Requirements for the MBA in Information Systems

To graduate with an MBA in Information Systems, students must successfully complete all general requirements for a master’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) Degree requirements for the MBA in Information Systems are a minimum of 59 credits.

Foundational Studies (Year One)
In the first year of the program, take five foundational courses:
• MGT 5402 MBA Principles of Success (2 credits)
• MGT 425 Marketing (4 credits)
• MGT 5410 Information Systems Foundations (4 credits)
• MGT 5160 Managerial Accounting (4 credits)
• MGT 482 Management and Organization (4 credits)

Information System Electives (Year Two)
In the second year of the program, students take four MIS elective courses:
• MGT 5412 Information Systems Strategy and Governance (4 credits)
• MGT 5470 Systems Analysis and Design (4 credits)
• MGT 5465 Big Data and Artificial Intelligence Applications (4 credits)
• MGT 5460 Business Intelligence and Data Analytics (4 credits)

Information Systems Electives (Year Three)
In their third year, students take two additional electives:
• MGT 5165 Metrics for Sustainable Business (4 credits)
• MGT 5490 Information Systems Capstone Project (4 credits)

Curricular Practical Training
Concurrent with their course work, students also enroll in Curricular Practical Training, which entails earning credit for a student’s on-the-job experience:
• MGT 5341 Career Strategies in Information Technology (1 credit per month)

Forest Academy
In the second and third years of this 2.5-year program, students begin their study on campus with a two-week Forest Academy. (2 credits)

Overall, the program will be 10 courses (40 credits), plus two residencies of two weeks each (4 credits). Plus 2.5 years of Curricular Practical Training units (15 credits), for a total of 59 credits.
MASTER OF SCIENCE IN ENTERPRISE RESOURCE PLANNING, FINANCE, AND CONTROL

Among students, this degree is known as the MBA in SAP Finance. SAP is the brand name of the world’s most popular corporate software for enterprise resource planning (ERP). The SAP Finance software module allows an organization to manage all of its financial data.

The purpose of SAP Finance is to help companies generate and manage financial statements for analysis and reporting and help with effective business planning and decision-making. In this program, students learn:

- Integrated business processes using SAP Enterprise Resource Planning (ERP). Modules include finance, controlling, production planning, and material management.
- SAP business process configuration and execution.
- Business analytics using SAP Business Objects, SAP Lumira, Data Warehouse, Crystal Reports, and predictive analytics.
- Financial and managerial accounting using the SAP ERP platform.

Whereas the MBA is full-spectrum general management degree requiring up to 58 credits, the MS in SAP Finance is a highly focused master’s degree. Its 30 credits can be completed in three semesters of evening-weekend online study.

Entrance Requirements for the Master of Science in ERP Finance and Control

Applicants must have a four-year undergraduate degree or the equivalent and a GPA of 3.0 or higher, or a GPA of 3.2 or higher in the final two years of college.

- Optional: Graduate Management Admission Test (GMAT) or GRE General Test

Acceptance is based upon the quality of undergraduate performance and other factors.

All international students must submit official English proficiency test scores (either TOEFL or IELTS) as part of their application. The test must have been taken within the past two years. Applicants are exempt from this requirement if they have resided in the following countries for a minimum of 2 years: American Samoa, Australia, Bahamas, Barbados, Belize, Canada (except Quebec), Dominica, Grenada, Grand Cayman, Guyana, Ireland, Jamaica, Liberia, New Zealand, Trinidad/Tobago, United Kingdom and U.S. Pacific Trust. Applicants with scores below 6.5 on IELTS, 575 TOEFL paper-based, 230 TOEFL computer-based, 90 TOEFL internet-based, or 58 PTE will be asked to take the Intensive English program before enrolling in degree program classes.
Graduation Requirements for the MS in ERP Finance and Control

MBA students must complete a total of 30 semester-hour credits, including 16 credits in the SAP specialization and 10 credits of elective courses. To graduate with an MS, students must successfully complete all general requirements for a master’s degree, including STC508 Science and Technology of Consciousness: Principles of Success in Personal and Professional Life (4 credits).

University Requirement (4 credits)
To graduate with an MS degree, students must successfully complete all general requirements for a master’s degree, and, within the first two semesters, the introductory course
• STC 508 Science and Technology of Consciousness: Principles of Success in Personal and Professional Life (4 credits)

Required SAP Courses (18 credits)
Students must take 4 of the following 5 courses that use the SAP software.
• MGT 5301 Finance & Control (4 credits)
• MGT 5302 SAP Business Processes (4 credits)
• MGT 5303 SAP Business Configuration (4 credits)
• MGT 5304 SAP Enterprise Business Analytics (4 credits)
• MGT 5460 Business Intelligence and Data Mining (4 credits)
Students must also complete a capstone project of at least 2 credits.
• MGT 5960 Capstone Project (2-4 credits)

Electives (8 credits)
Any MGT course at the 500 level may count as an elective course. MS-SAP students may be particularly interested in the following accounting and finance courses taught in the Online MBA program, including:
• MGT 5150 Financial Accounting Analysis (4 credits)
• MGT 5160 Managerial Accounting (4 credits)
• MGT 5161 CMA 1: Financial Planning (4 credits)
• MGT 5162 CMA 2: Financial Decision-Making (4 credits)
• MGT 5514 Enterprise Performance Management (2-4 credits)
• MGT 5151 CPA 1: Business Environment and Concepts (4 credits)
• MGT 5152 CPA 2: Auditing & Attestation (4 credits)
• MGT 5153 CPA 3: Financial Accounting & Reporting (4 credits)
• MGT 5154 CPA 4: Regulation (4 credits)
Students who have taken graduate course work in business administration at another university and have not used those credits for a degree may apply to have up to 10 credits count as electives toward the MS, subject to approval by the Program Director.

MASTER OF ARTS IN LEADERSHIP AND WORKPLACE CONFLICT RESOLUTION

Handling conflict is the hardest part of a manager’s job. The Master’s in Leadership and Workplace Conflict Resolution cultivates the essential communication, leadership and conflict resolution skills that enable managers to resolve conflict and create a harmonious and effective workplace environment. The core courses of the MA-LWCR program give students experience in resolving conflicts that can be applied in many contexts.

Whereas the MBA is full-spectrum general management degree requiring up to 58 credits, the MA in Workplace Conflict Resolution is a highly focused master’s degree. Its 31 credits can be completed in three semesters of evening-weekend online study.

Entrance Requirements for the MA in Leadership and Workplace Conflict Resolution

Applicants must have a four-year bachelor’s degree or the equivalent in formal training and work experience. Acceptance is based upon the quality of undergraduate performance, aptitude test scores, work experience and other achievements.

All international students must submit official English proficiency test scores (either TOEFL or IELTS) as part of their application. The test must have been taken within the past two years. Applicants are exempt from this requirement if they have resided in the following countries for a minimum of 2 years: American Samoa, Australia, Bahamas, Barbados, Belize, Canada (except Quebec), Dominica, Grenada, Grand Cayman, Guyana, Ireland, Jamaica, Liberia, New Zealand, Trinidad/Tobago, United Kingdom and U.S. Pacific Trust. Applicants with scores below 6.5 on IELTS, 575 TOEFL paper-based, 230 TOEFL computer-based, 90 TOEFL internet-based, or 58 PTE will be asked to take the Intensive English program before enrolling in degree program classes.

The Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE) is recommended but not required.

Graduation Requirements for the MA in Leadership and Workplace Conflict Resolution

MA-LWCR students must complete a total of 30 semester-hour credits consisting of a university requirement and a program core, as follows.
University Requirement
To graduate with an MA degree, students must successfully complete all general requirements for a master’s degree, and, within the first two semesters, the introductory course
Students must also take MGT 5820 Leadership and Management (2 credits) and MGT 5821 Leadership and Teamwork (1 credit) to fulfill the Science and Technology of Consciousness requirement. (Please refer to “Degree Requirements” in “Academic Policies.”)

MA-LWCR Required Courses (30 credits)
The courses designated by (*) collectively satisfy the Science and Technology of Consciousness requirement.

* STC 508A Science and Technology of Consciousness: Principles of Success in Personal and Professional Life (1 credit)
• MGT 5120 Business Law and Government Regulations (4 credits)
• MGT 5342 Human Resource Management (4 credits)
* MGT 5820 Leadership and Management (2 credits)
* MGT 5821 Leadership and Teamwork (1 credit)
• MGT 5828 Communication Skills for Managers (2 credits)
• MGT 5829 Culture and Conflict Resolution (2 credits)
• MGT 5831 Negotiation in the Workplace (2 credits)
• MGT 5832 Mediation (2 credits)
• MGT 5834 Conflict Resolution in Teams (2 credits)
• MGT 5835 Organizations Design to Minimize Conflict (2 credits)
• MGT 5836 Difficult People and Difficult Conversations (2 credits)
• MGT 5837 Transformational Coaching (2 credits)
• MGT 5838 Capstone Project in Workplace Conflict Resolution (2 credits)

MA-LWCR Elective Courses
Though the required courses fulfill all the requirements for the degree, some students might transfer some graduate credit and thereby waive a required course in the program. Others may want to take some extra credits while finishing out their final semester. Electives courses may also be taken from the Online MBA program with the consent of one’s advisor. Elective courses may be taken outside the College of Business at the graduate level up to a limit of 4 credits. The following are a few electives that might be useful for those taking this degree.
• MGT 5820 Management and Organization (4 credits)
• FOR 423 Team Building and Performance (1–2 credits)
• MGT 5990 Directed Study (1–4 credits)

Students who have taken graduate course work in business administration at another university and have not used those credits for a degree may apply to have up to 10 credits count as electives toward the MS, subject to approval by the Program Director.

MASTER OF SCIENCE IN SUSTAINABILITY MEASUREMENT AND REPORTING

Sustainability is a significant emerging theme in business, government, and nonprofit organizations. About two-thirds of the jobs with titles like Sustainability Coordinator or Sustainability Manager require a knowledge of how to use the various metrics for measuring and reporting on organizational sustainability. This MS program trains people to gain those essential skills.

Whereas the MBA is full-spectrum general management degree requiring up to 58 credits, the MS in Sustainability Measurement and Reporting is a highly focused master’s degree. Its 30 credits can be completed in three semesters of evening-weekend online study.

Entrance Requirements for the MS in Sustainability Measurement and Reporting

Applicants must have a four-year bachelor’s degree or the equivalent in formal training and work experience. Acceptance is based upon the quality of undergraduate performance, aptitude test scores, work experience and other achievements.

All international students must submit official English proficiency test scores (either TOEFL or IELTS) as part of their application. The test must have been taken within the past two years. Applicants are exempt from this requirement if they have resided in the following countries for a minimum of 2 years: American Samoa, Australia, Bahamas, Barbados, Belize, Canada (except Quebec), Dominica, Grenada, Grand Cayman, Guyana, Ireland, Jamaica, Liberia, New Zealand, Trinidad/Tobago, United Kingdom and U.S. Pacific Trust. Applicants with scores below 6.5 on IELTS, 575 TOEFL paper-based, 230 TOEFL computer-based, 90 TOEFL internet-based, or 58 PTE will be asked to take the Intensive English program before enrolling in degree program classes.

The Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE) is recommended but not required.

Mathematics at the level of college algebra is necessary for this MS degree. Some collegiate study in the biological or physiological sciences will be an advantage in learning how to describe the environmental impacts of business activities. Students who
do not have the prerequisite knowledge of mathematics will be required to take MGT 417 Mathematics for Business in a summer session prior to their first semester or as a foundational course.

**Graduation Requirements for the MS in Sustainability Measurement and Reporting**

MS-SMR students must complete a total of 30 semester-hour credits consisting of a university requirement, a program core, and electives, as follows.

**University Requirement** (5 credits)

To graduate with an MS degree, students must successfully complete all general requirements for a master’s degree, and, within the first two semesters, the introductory course

- **STC 508 Science and Technology of Consciousness: Principles of Success in Personal and Professional Life** (4 credits)

Students must also take a one-credit Forest Academy course (FOR) at the start of each semester after finishing STC508. (Please refer to “Degree Requirements” in “Academic Policies.”)

- **FOR 510 MBA Topics in Personal and Professional Development** (or equivalent) (1 credit each)

**MS-SMR Core Courses** (16 credits)

The core courses of the MS-SMR program give students the span of knowledge about sustainability metrics that will allow them to work in many contexts and fields of application.

- **MGT 5165 Metrics for Sustainable Business** (4 credits)
- **MGT 5310 Sustainable Technologies** (4 credits)
- **MGT 5952 Strategic Management for Sustainable Business** (2 credits)
- **MGT 5163 Green Building Concepts and Metrics** (2 credits)
- **MGT 5960 Capstone Project** (4 credits)

**MS-SMR Elective Courses** (9 credits)

Elective courses are offered based on demand. Popular electives are offered every year. Other electives will be offered on a longer rotation. Electives courses may also be taken from the online MBA in Sustainable Business program with the consent of one’s advisor. Elective courses may be taken outside the College of Business at the graduate level up to a limit of 4 credits.

**Sustainability Accounting and Reporting**

- **MGT 5772 Reporting and Auditing with the GRI Standard** (2-4 cr)
- **MGT 5773 Reporting and Auditing with the SASB Standard** (2-4 cr)
• MGT 5775 Using SAP-SPM for Corporate Sustainability Performance Management (2 cr)
• MGT 5161 CMA1: Financial Planning, Performance, Control and Integrated Reporting (4 cr)
• MGT 5770 CMA2: Financial Decision Making, Sustainability and Social Responsibility (4 cr)

Special Focus Reporting
• MGT 5873 Corporate Sustainability Rating Systems (2-4 cr)
• MGT 5776 Sustainability Reporting for Small and Medium Enterprises (2-4 cr)
• MGT 5871 The STARS metric for University Sustainability (2-4 cr)
• MGT 5872 The LEED For Cities and Communities Metric (4 cr)
• MGT 5164E LEED AP Existing Buildings Operations & Maintenance (4 cr)
• MGT 5874 Greenhouse Gas Accounting—Carbon Footprinting (2-4 cr)
• MGT 5681 Socially Responsible Investing (2–4 credits)

Students who have taken graduate course work in business administration at another university and have not used those credits for a degree may apply to have up to 10 credits count as electives toward the MS, subject to approval by the Program Director.

GRADUATE CERTIFICATES IN BUSINESS

The entrance requirement for any Graduate Certificate in Business is the completion of either a four-year bachelor’s degree or a three-year bachelor’s degree with at least 15 semester-hours of additional study and the equivalent of 15 semester-hours in work experience or permission of the Department Chair.

Students in a Graduate Certificate program must take either MVS 500 The Science of Creative Intelligence (4 credits) or STC 508 Science and Technology of Consciousness (either as STC 508 or as STC 508A,B,C,D). If STC is taken in parts, students must complete STC 508A before starting their third course (9th credit) of the MBA program, unless they waive this requirement due to prior study.

Graduate Certificate in Business Administration

A student may earn a Graduate Certificate in Business Administration by taking 15 credits of MBA, MA or MS course work.
PHD IN MANAGEMENT

A Holistic Approach to Management

The PhD program in Management at Maharishi University of Management explores how organizations create shared value that fulfills the interests of the organization and produces positive impacts for society and the environment. Our investigations of holistic management encompass three components:

1) Developing holistic consciousness: The evolution of individual and collective consciousness cultivates the learning capabilities of systems thinking, collaborative relationships, and creative visioning to achieve shared value.

2) Managing the transformation of organizations for more holistic success: Evolving consciousness expresses itself in new management practices and forms of organization that enable organizations to innovatively address social and environmental needs.

3) Measuring and communicating holistic outcomes: Evolving consciousness attends to and reports on a holistic range of performance outcomes, encompassing economic, social, and environmental results.

Transcendental Meditation

All educational programs at MUM include twice-daily practice the Transcendental Meditation technique. This scientifically validated technique has been shown to lower stress, enhance brain functioning, increase intelligence and creativity, and support overall health. After regular meditation practice, our students often report feeling less stressed and more creative than ever. Students learn to reflect on how this transformative practice can be applied to help achieve their goals as educators and managers.

Professional Development for Teaching, Consulting, and Educational Management

Students in the PhD program are trained in principles and practices for successful management, writing, teaching and research, which can be applied in a variety of leadership, consulting and academic situations.

Preparing Researchers to Advance Knowledge of Holistic Management

The PhD program prepares each student to conduct original and significant research through courses in management theory and in research methods and statistics. Students are encouraged to identify a research topic early in their studies so that the research papers throughout the program can focus on this chosen topic.

The PhD program prepares each student to conduct original and significant research through courses in management theory and in research methods and statistics. Students are encouraged to identify a research topic early in their studies so that the research papers throughout the program can focus on this chosen topic. As part of the required course work, students undertake a written qualifying exam. When a student successfully
completes the qualifying examination, the student is advanced to PhD candidate status, and tuition is reduced. When a dissertation proposal is accepted, the student is advanced to PhD researcher status. The PhD researcher must successfully complete an oral defense of the dissertation.

**Entrance Requirements for the PhD Degree in Management**

The entrance requirements for the Doctor of Philosophy in Management are:

- MBA, master’s degree in a business-related field, or a master’s degree and substantial business-related work experience
- GMAT or GRE exam
- A substantial research paper as evidence of academic writing. The paper may have been submitted for required course assignments or as a thesis in the student’s master’s degree program. This should be a paper written by the student alone, not a project by a team of students. This writing sample may be accepted as a substitute for scores on GMAT or GRE.
- TOEFL score of at least 575 (paper-based) or 90 (Internet-based), or IELTS overall band of 6.5, is required if a student’s native language is not English. TOEFL may be waived if the student has completed a degree program conducted in English. For the PhD in Shanghai China, an IELTS band total score of 6.0 (TOEFL 60-78) is required if a student’s native language is not English.
- At least two years of professional work experience in a business is preferred.

**Graduation Requirements for the PhD Degree in Management**

To graduate with a PhD in Management, students must successfully complete all general requirements for the doctoral degree, including time limits. (Please refer to “Degree Requirements” in “Academic Policies.”) In addition, students must successfully complete the following:

**Core Management Courses (16 credits)**

- MGT 601 Organizational Behavior Theory and Research (4 credits)
- MGT 607 Assessing Human Development (4 credits)
- MGT 676 Organizational Development and Change (2 credits)
- MGT 606 Socially and Environmentally Responsible Management (2 credits)
- MGT 678 Outcomes Measurement for Sustainable Business (2 credits)
- MGT 679 Research Seminar in Management (2 credits required)
Science and Technology of Consciousness (4 credits)
• FOR 500 Science and Technology of Consciousness (4 credits)

Forest Academy Courses
After completing the Science and Technology of Consciousness or Science of Creative Intelligence course, students be enrolled in a Forest Academy course of at least 1 credit for each semester the student is enrolled in the PhD program.

Research Methods (18 credits)
Note: a maximum of one course may be waived by prior study; additional courses may be required by the dissertation advisor as appropriate to the student’s research
• MGT 5170 Data Analysis for Managers (2 credits)
• MGT 628 Introduction to Multivariate Data Analysis (4 credits)
• MGT 631 Multiple Regression Analysis (4 credits)
• MGT 635 Quantitative Research Design (4 credits)
• MGT 636 Qualitative Research Methods (4 credits)

Professional Development (4 credits)
• MGT 692 Seminar in Writing (4 credits)

Additional Courses
A student’s faculty advisory committee may require additional course work as required for the student’s dissertation research.

Qualifying Examination and Dissertation Research (18 credits minimum)
• MGT 690 Preparation for Qualifying Examination (2 credits). May be repeated for credit, subject to satisfactory progress, until the qualifying examination is completed.
• MGT 700 Preparing the Dissertation Proposal (8 credits per semester). May be repeated for credit, subject to satisfactory progress, until dissertation proposal is accepted.
• MGT 701 Dissertation Research (8 credits per semester). May be repeated for credit, subject to satisfactory progress, until dissertation is completed.

When the qualifying examination is successfully completed, the student is advanced to PhD Candidate status. When the dissertation proposal is accepted by the faculty, the student is advanced to PhD Researcher status. The amount of time required to complete the dissertation varies according to the research project. A public oral presentation and defense of the dissertation is required, as is acceptance of the dissertation by the
dissertation committee, the Graduate School Director, and the Library Director. (See the dissertation manual.)

**Faculty Development Track (8 credits minimum)**
Within the PhD program is an enhanced track for professional development which is required for PhD students who are assigned duties as Graduate Instructors while in the PhD program. This program develops skills in teaching practices and in making conceptual contributions to management from the perspective of the Science and Technology of Consciousness.
- FOR 595 and/or FOR 596, 597 Faculty Training Course (4 credits)
- FOR 700 Vedic Science Research (2 credits)
- MGT 695 Qualifying Examination in Consciousness-Based Management (2 credits)

**COURSES**

**Undergraduate Courses**

**MGT 200 Growing a Business: Principles of Business Success**
This course provides a holistic overview of business for new management majors or students from other majors. Principles of marketing, finance, operations, accounting, and human resources are taught in the perspective of an integrated business strategy and are illustrated by lively examples from videos, case studies, guest speakers, and field trips. (4 credits)

**MGT 201 Business Communication Skills: Creating a Frictionless Flow of Communication between Sender and Receiver through Effective Presentations and Writing**
Effective communicators are skilled at both informing and inspiring other people. This course provides instruction and practice in making oral and written presentations based on the principle that ideal communication is a frictionless flow that nourishes both sender and receiver. Topics include: word processing and presentation software; library and Internet research skills; oral presentations; writing letters, reports, proposals, and manuals; and the principles of ideal communication. This is a writing intensive course. (4 credits) Prerequisite: WTG 192

**MGT 203 Personal Finance: Knowledge has Organizing Power and Upholds Successful Action**
This course helps a student understand both the fundamentals and the practical aspects of personal finance. The fundamentals of the time value of money, the risk/return relationship, and the power of compounding lay the foundation for the practical aspects of managing debt and income to plan for success both while working and in retirement.
Debt aspects covered include credit cards, auto loans, mortgages, and taxes. Income topics covered include work income, stocks, bonds, and real estate. (2-4 credits)

**MGT 220 Current Topics in Sustainable Economics: Efficiently Using Resources to Promote the Fulfillment of Individuals and Society**
This course reviews the basic assumptions and logic of classical microeconomics and macroeconomics in light of their modern critique through sustainability. Specific topics will vary from one offering to the next. However, frequent themes in the course are the social responsibility of business, the importance of local versus global markets, equality of economic opportunity, the distribution of wealth and income, the role of government in the economy, the conservation of natural resources, and the goals of an economic system. (4 credits)

**MGT 222 CCTS—Economics for Entrepreneurs: The Institutional Context of Creativity**
In this Critical and Creative Thinking seminar, students develop their skill in the use of logical argument, the interpretation of evidence, and the analysis of underlying assumptions to understand current issues in economics. This course uses economic analysis to understand the market and competitive environment of the entrepreneurial firm. On the consumer side of the industry, we study consumer behavior, the factors that affect consumers’ purchase decisions, strategies for pricing a product, and revenue models for a business. On the competitive side, we study how firms position themselves to compete within an industry, types of competitive strategy, and opportunities for collaboration with firms that offer complementary products or have access to complementary markets. We also use economic analysis to study the cost structure of a business in order to determine the break-even sales rate. At the completion of this course, students in the Creative Entrepreneur program will write the Industry Analysis section of their business plan. (4 credits)

**MGT 230 The Successful Entrepreneur: Tapping into the Creative Power of Nature**
This course is an introduction to the life of the entrepreneur as told through case studies and personal histories. Topics include: the mindset required of an entrepreneur, how to recognize a good idea for a business, issues in managing people and getting funding, balancing work and family life, entrepreneurship in international business and in the non-profit sector. (4 credits)

**MGT 307 Numerical Methods for Decision-Making: Order is Present Everywhere**
Understanding proper use and common misuses of numbers and graphs can improve thinking and decision-making of all stakeholders of organizations and citizens in modern societies. This course applies basic mathematics and statistics to the analysis and
interpretation of real-world quantitative information in the context of business and society. (4 credits) Prerequisite: Math152 (Elementary Algebra)

MGT 314 Statistics for Business and the Environment: Discovering the Orderly Patterns and Relationships at the Basis of Nature’s Functioning
Statistics offers powerful quantitative tools based on the underlying orderliness of nature to support improved decision-making in business and environmental management. Statistics is the art and science of finding meaningful patterns and relationships in data (data analysis), generating useful data (data production), and drawing valid conclusions from data (statistical inference). In this course, students will learn how to use key graphical and numerical tools of data analysis, how to effectively present their findings, and evaluate the validity of their conclusions. Environmental applications and case studies will be emphasized. Topics include: graphical and numerical tools for summarizing and describing data, modeling data with probability distributions, sampling and surveys, designing experiments, hypothesis testing for means and proportions, correlation analysis, and modeling relationships using regression analysis. (4 credits) Prerequisite: MATH 152 or equivalent

MGT 315 Financial Accounting: Using the Self-Referral Mechanism of Financial Statements to Structure an Organization’s Progress and Prosperity
Accounting systems provide financial information to guide management planning, decision-making, and control. Financial statements are essential for reporting to management, stockholders, creditors, and the government. Topics include: fundamentals of bookkeeping, internal control, generally accepted accounting principles, inventory valuation, receivables and payables, depreciation, amortization, stocks and bonds, inflation accounting, and the interpretation and analysis of financial statements. (4 credits)

MGT 316 Managerial Accounting: Creating Self-Referral Feedback Mechanisms to Provide Data for Informed Decision-Making
This course provides analytic tools and techniques to assist management in planning, decision-making, and control. Topics include: cost-volume-profit analysis, manufacturing costs, job order and process costing, standard costing and variance analysis, variable and full costing, fixed and flexible budgets, responsibility accounting, direct and absorption costing, and the behavioral implications of management accounting systems. (4 credits)

MGT 336 Social Entrepreneurship: Solving Problems from the Level of Infinite Creativity
This project-based class challenges students to employ every ounce of their creativity and apply their knowledge to finding solutions to the world’s most challenging problems,
whether local or global, in the area of environmental sustainability, education, communications, or business. Each week we will connect with and learn from social entrepreneurs from around the world working in education, mobile technology, community development and so forth, and draw inspiration from their relentless vision and determination. Through the study of innovations in the social sector, we will develop an understanding of core principles and tactics of social change as well as the necessary leadership qualities of social entrepreneurs. Students will work individually or in groups to conceive of a social intervention of their own design. Students will present their plans, models and media to a committee to evaluate the potential of their work to create social change. (2-4 credits)

**MGT 346 Career Strategies: Choosing a Career to Maximize Inner and Outer Fulfillment**

The course has a practical focus on career discovery and implementation. In the framework of Consciousness-Based principles for success, students consider their own skills, abilities, and objectives, and learn to design a career that utilizes their talents and creativity for maximum effectiveness, achievement, and evolution. They design an action plan to implement their career goals, and then work with the best Internet resources to research occupational interests, business and service organization profiles, and industry trends. Students learn networking strategies, including interviews, and using the telephone and Internet for extending their professional networks. They also develop scripts for introducing themselves and describing their achievements and capabilities with confidence in various formats, writing about themselves in the cover letter, resume, and portfolio, and speaking about themselves and what they can offer to potential colleagues, funding agencies and employers. (variable credits) **Prerequisite:** third year of undergraduate study

**MGT 350 Financial Management: Intelligently Directing the Flow of Funds to Achieve the Organization’s Strategic Goals**

Financial management provides an intelligent direction to the flow of funds for maximizing firm value. This course introduces techniques and concepts necessary to effectively manage the financial resources of any organization in order to achieve strategic goals. **Topics include:** the time value of money, stock and bond valuation, risk and return, capital investment decisions, analysis of financial statements, financial forecasting, working capital management, the investment banking process, and the sources of funding for a business. Students will develop capital requirements, plan the raising of capital, and develop a cash flow design for their business plan project. (4 credits) **Prerequisite:** MGT 316 or MGT 315
MGT 351 Financial Modeling and Data Analysis
This course trains students to use the financial models that are most useful to accountants and shows how the models can be solved numerically and/or simulated using Excel. This course covers principles of financial modeling illustrated by the standard quantitative models and techniques used in corporate finance and in financial statement simulation and analysis. Techniques in Excel include lookup functions for standardizing data, pivot tables to summarize data, data tables for sensitivity analysis, and goal seek for numerical solution, among others. Prerequisite: MATH 153

MGT 378 Marketing Management: Creating a Positive Influence to Attract, Satisfy, and Retain Customers
Marketing is the process of creating exchanges that satisfy individual and organizational objectives. Topics include: consumer behavior, market research, market segmentation, competitive positioning and strategy, advertising, pricing, distribution and channel management, selling techniques and sales force management, and new product development. Students conduct an industry analysis and write the marketing section for their business plan. (4 credits) Prerequisites: WTG 192

MGT 382 Management and Organization: Expanded Consciousness Is the Basis of Ideal Behavior at the Individual, Team, and Organizational Levels
An understanding of the principles of human behavior at the individual, interpersonal, group, and organizational levels of analysis is critical to successful planning, organizing, and implementation by any manager. This course explores the dynamics of individual and group achievement from the perspectives of both skills and theory. Topics include: general management theory, leadership, delegation and coordination, planning and problem solving, organizational structure, and organizational change. (4 credits)

MGT 398 Internship
This course offers practical experience through work in business administration, public administration, or educational administration. Students maintain journals that record their growth in understanding and experience, as well as their impact on the organization. Prerequisite: Consent of academic advisor and Academic Standards Committee.

MGT 400 Topics in Business: Exploring the Field of All Possibilities in Business
This course covers topics to be defined by the instructor that supplement the regular curriculum. (variable credits) Prerequisite: consent of the Department faculty
MGT 402 Managing for Sustainability: Maximizing the Intelligent Use of the Environment by Focusing on Environmental and Resource Policy
Ideal for both Management and Sustainable Living students, this course shows how creating an environmentally sustainable operation can provide opportunities for increasing profits. Using case studies, students learn how to apply the core principles of sustainability in agriculture, business, manufacturing, government and other activities, so that it is both profitable and beneficial to the environment. The course is project-based and covers sustainability in all areas of society from both local and global perspectives. The role of ISO 14001, responsible investing, and environmental advocacy organizations, in the transition to sustainable living, will be made clear. Students will interact with city and industry leaders and managers to create budget and return-on-investment projections for transformation to sustainable practices. (4 credits)

MGT 403 World Peace Project: Applying the Consciousness-Based Approach to Peace
During this project, the student connects the knowledge gained from the other four or more courses in the World Peace minor, by answering the theme question: How does the Consciousness-Based Approach to Peace bring peace to the individual, the nation and the world? Each student creates a contract with the faculty advisor to design a unique response to this question, and meets on a regular basis to show progress on the project. This course is taken as a formal class when 10 or more students are enrolled in it during any block. This project may also be done, with faculty approval, in the context of a preparation course for a peace conference at Maharishi University of Management or at another site. (2-4 credits)

MGT 404 Managerial Accounting: Creating Self-Referral Feedback Mechanisms to Provide Data for Informed Decision-Making
This course provides analytic tools and techniques to assist management in planning, decision-making, and control. Topics include: cost-volume-profit analysis, manufacturing costs, job order and process costing, standard costing and variance analysis, variable and full costing, fixed and flexible budgets, responsibility accounting, direct and absorption costing, and the behavioral implications of management accounting systems. (4 credits)

MGT 405 Cross-Cultural Communication: Understanding and Appreciating Differences to Create a Frictionless Flow of Communication
Ever increasing globalization makes it imperative that students understand the different cultures in their world. This course provides frameworks useful in classifying cultures and understanding cultural norms and traditions. Analyzing case studies and participating in workshops and presentations enable students to establish patterns of behavior that facilitate cross-cultural communication. (2–4 credits)
MGT 408 Preparation for Professional Examination
Examinations administered by professional associations provide a standard assessment of learning in specific professional areas. This course provides an opportunity for students to review the material covered by specific professional examinations and to practice taking sample examination questions. (4 credits)

MGT 414 Taxation: Calculating the Individual and Corporate Contribution to Government Activities to Bring Fulfillment to the Goals of Society
State and federal taxation are instruments of social policy. The principles of taxation must be considered in the planning and decision-making process of every organization whether profit or nonprofit. This course surveys basic tax concepts and their use in individual and organizational tax planning. Topics include: social policy implications of taxation, concepts of income, tax reporting, taxpaying entities, deductions, property transactions, and gain or loss recognition. (2–4 credits) Prerequisites: MGT 315 or 316 recommended

MGT 415 Business Intelligence and Data Mining: Intelligence Gives an Evolutionary Direction to Change
The amount of data in organizations is growing exponentially, doubling every 18-24 months. Structured data from traditional information systems is now augmented by huge streams of data from devices, social networks, web logs, etc. Organizations that are not prepared for this increasing volume, variety, and velocity of data can drown in these streams of data, while the prepared ones can mine the data for new insights and initiatives almost in real time. This course covers the fundamental concepts of managing and mining data to support business decision-making and drive business value. Topics include: analysis, design and development of data warehouses; and data mining tools and techniques, including statistical and machine learning tools, to provide nearly real-time business analytics and intelligence.

MGT 424 Data Analysis for Managers: Harnessing Nature’s Organizing Power by Using Computer Technology to Support Decision-Making
The tools of managerial data analysis enable managers to transform raw data into useful knowledge of business performance in every functional area of business by identifying meaningful patterns and relationships in business data. Increased knowledge of business processes provides a foundation for improved business decision-making and enhanced business performance. Topics include: principles of statistical thinking for management; numerical and graphical tools for describing and analyzing business data; applications of probability and probability distributions; hypothesis testing for business decision-making; applied multiple regression for analyzing business performance and operations through case studies using real data. (2–4 credits) Prerequisite: MATH 152 or the equivalent
MGT 425 Marketing Management: Creating a Positive Influence to Attract, Satisfy, and Retain Customers
Marketing is the process of creating exchanges that satisfy individual and organizational objectives. Topics include: consumer behavior, market research, market segmentation, competitive positioning and strategy, advertising, pricing, distribution and channel management, selling techniques and sales force management, and new product development. Students conduct an industry analysis and write the marketing section for their business plan. (4 credits) Prerequisites: WTG 192

MGT 428 Business Law and Ethics: Learning to Act in Accord with Natural and National Law—Supporting Business Interactions through Contracts, Torts, and Agency Law
Law is a tool of progress. It creates the legal form of the business and enables business people to communicate clearly. It facilitates their commercial relationships and averts problems before they arise. Familiarity with business law and the natural laws upon which it is based promotes success for the individual and society. Topics include: contracts, torts, agency, bankruptcy, secured transactions and property (real, personal, and intellectual property.) Students learn to select the most appropriate form of organization for their business and draft simple contracts. (4 credits)

MGT 429 Human Resource Management: Designing Systems to Attract, Retain, Motivate, and Nurture the Organization’s Most Precious Resource
People are an organization’s most important asset. Success comes from organizing and managing people to produce the products and services that customers value. This survey course exposes students to the full array of human resource functions: human resource planning, recruitment and selection, training, performance management, compensation, unions, and upholding employer/employee rights and responsibilities. The students become familiar with the role of human resource department staff in designing human resource systems, as well as the critical role line managers and supervisors play in using these systems effectively to attract, retain, and motivate employees. Students also design a comprehensive human resource section for their business plan. (4 credits)

MGT 430 Financial Management: Intelligently Directing the Flow of Funds to Achieve the Organization’s Strategic Goals
Financial management provides an intelligent direction to the flow of funds for maximizing firm value. This course introduces techniques and concepts necessary to effectively manage the financial resources of any organization in order to achieve strategic goals. Topics include: the time value of money, stock and bond valuation, risk and return, capital investment decisions, analysis of financial statements, financial
forecasting, working capital management, the investment banking process, and the sources of funding for a business. Students will develop capital requirements, plan the raising of capital, and develop a cash flow design for their business plan project. (4 credits) Prerequisite: MGT 316 or MGT 315

**MGT 431 Creative Entrepreneur I: Harnessing Nature’s Infinite Creativity to Plan and Start a Sustainable Business**
Principles of management and marketing are taught from the perspective of starting a new business with an integrated business strategy. Students articulate their personal and business goals and generate ideas for a sustainable business. (4 credits) Prerequisite: MGT 200 or MGT 230 if not a business major

**MGT 432 Creative Entrepreneur II: Integrating the Principles of Management to Start a Sustainable Business**
This capstone course enables entrepreneurs or intrapreneurs to dynamically integrate the knowledge of the Entrepreneurship Module in the creation of their business plan to manifest their intention. Students evaluate sample business plans, review and give feedback on classmates’ business plans, and revise and present their own business plan to faculty and mentors. (4 credits) Prerequisites: MGT 350, MGT 378, MGT 428, MGT 429, MGT 431 and WTG 192 or MGT 431 and permission of the instructor

**MGT 440 Intermediate Accounting I: Developing Broad Comprehension of Accounting Principles and Sharp Focus in their Application for an Accurate Financial Statement**
This course sequence provides a technical analysis of how generally accepted accounting principles (GAAP) are applied in the presentation of published financial statements. The interplay of government, the accounting profession, and the conceptual framework of accounting at the basis of formulating GAAP demonstrate how collective consciousness interacts within itself to create steps of social evolution. References are made to technical statements and pronouncements that are the sources of GAAP, covering a variety of specific topics such as accounting for leases, pensions, and inter-period income tax. (4 credits) Prerequisite: MGT 315

**MGT 441 Intermediate Accounting II: Waking Up the Organization to Self-Referral Dynamics**
This course sequence provides a technical analysis of how generally accepted accounting principles (GAAP) are applied in the presentation of published financial statements. The interplay of government, the accounting profession, and the conceptual framework of accounting at the basis of formulating GAAP demonstrate how collective consciousness interacts within itself to create steps of social evolution. References are made to technical
statements and pronouncements that are the sources of GAAP, covering a variety of specific topics such as accounting for leases, pensions, and inter-period income tax. (4 credits) Prerequisite: MGT 440

MGT 449 Accounting Applications: Using Computerized Accounting Systems to Do Less and Accomplish More
Modern financial management utilizes computerized accounting packages for efficient record keeping, safeguarding of assets, customer service, and financial analysis. This course reviews current computerized accounting packages and applies them to case situations. (2–4 credits) Prerequisite: MGT 315

MGT 450 Leadership: Intelligence Gives an Evolutionary Direction to Change
The qualities and principles of ideal leadership are identified, examined and developed through the examples of great leaders in history. This course provides the opportunity to measure how a dynamic executive in either the public or private sector can apply the principles of Management by Natural Law. (4 credits) Prerequisites: MGT 200 and MGT 382

MGT 481 Internet Marketing
This course presents the core aspects of marketing online, including usability-oriented site architectures, pay per click campaigns, search engine optimization, social media and content strategies. Students develop a working website to demonstrate mastery of these concepts. (2–4 credits) Prerequisite: MGT 425

MGT 482 Management and Organization: Expanded Consciousness Is the Basis of Ideal Behavior at the Individual, Team, and Organizational Levels
An understanding of the principles of human behavior at the individual, interpersonal, group, and organizational levels of analysis is critical to successful planning, organizing, and implementation by any manager. This course explores the dynamics of individual and group achievement from the perspectives of both skills and theory. Topics include: general management theory, leadership, delegation and coordination, planning and problem solving, organizational structure, and organizational change. (4 credits)

MGT 484 Mediation and Negotiation: Utilizing the Deepest Principles of Human Nature to Create Win-Win Solutions
This course is a survey of negotiation, mediation, and arbitration methods of resolving disputes without litigation. Students gain practical negotiation skills through workshops and case studies. Topics include: understanding other parties, building a productive framework for negotiation, defining objectives and strategy, framing proposals, and finding “win/win” solutions. (4 credits)
MGT 494 Socially Responsible Investing: Fulfilling Individual and Societal Needs
The process of investing guides the allocation of society’s resources. Socially responsible investing guides resources toward firms that have life-supporting products and operational practices and that will be sustainable in the long run. This introductory course reviews the basics of investment analysis, examines the philosophy that money is colored by how it is earned, and reviews the methods for identifying socially responsible companies. (2–4 credits) Prerequisite: either MGT 350 or MGT 316 or permission of the instructor

MGT 495 Internship in Accounting: Integrating Knowledge and Experience to Develop Skill in Action
This course offers understanding from practical experience through work in accounting. In a capstone project, students integrate the knowledge of accounting they have gained in their BA program by seeing how it is put into practice. (4 credits) Prerequisites: consent of academic advisor and Academic Standards Committee

MGT 496 Preparation for CPA/CMA Exam: Knowledge is for Action
In this course, students are guided to prepare for one part of the Certified Professional Accountant or Certified Management Accountant exam. (4 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Prerequisite: consent of academic advisor

MGT 497 Fieldwork in Management: Developing Skill in Action
This course provides students with the opportunity to relate theoretical management principles to practical issues through contact with individuals and organizations outside of the university setting. With the supervision of the faculty, students develop and implement projects. Projects may include lecturing, consulting, writing, and developing courses or programs to be presented to selected audiences. (variable credits) Prerequisite: consent of academic advisor

MGT 498 Internship in Management: Integrating Knowledge and Experience to Develop Skill in Action
This course offers practical experience through work in business administration, public administration, or educational administration. Students maintain journals that record their growth in understanding and experience, as well as their impact on the organization. (4 credits) Prerequisites: consent of academic advisor and Academic Standards Committee
MGT 499 Directed Study
(variable credits) Prerequisites: consent of the Department faculty and the Academic Standards Committee

Graduate Courses

MGT 5010 Organizational Change for Sustainability: Creating an Ideal Society
Leadership means accomplishing through others. Implementing successful change in organizations requires process skills in facilitating the performance of individuals and teams. The development of coherence in the collective consciousness of the organization provides for frictionless flow of communication and implementation. Topics include: change management skills; life cycle of the consulting process; motivation for performance improvement; individual, interpersonal and team behavior; negotiating collaborative solutions; organizational learning; and the role of training in strategy implementation. (2–4 credits) Prerequisite: one course in HR or OB

MGT 5011 Social Entrepreneurship: Solving Problems from the Level of Infinite Creativity
This project-based class challenges students to employ every ounce of their creativity and apply their knowledge to finding solutions to the world’s most challenging problems, whether local or global, in the area of environmental sustainability, education, communications, or business. Each week we will connect with and learn from social entrepreneurs from around the world working in education, mobile technology, community development and so forth, and draw inspiration from their relentless vision and determination. Through the study of innovations in the social sector, we will develop an understanding of core principles and tactics of social change as well as the necessary leadership qualities of social entrepreneurs. Students will work individually or in groups to conceive of a social intervention of their own design. Students will present their plans, models and media to a committee to evaluate the potential of their work to create social change. (2-4 credits)

This course covers the theory and practice of performance improvement in both large and small organizations in the manufacturing and service sectors so that they operate in accordance with all the laws of nature. The focus will be on using lean thinking to transform every activity in an organization towards sustainable operations. Students will explore how to extend the principles, rules and tools of lean thinking to achieve sustainability along with the improvement in quality, reduction of costs, and maintenance of customer delight. The course uses a combination of interactive classroom instruction and project-based learning. Students learn how to align operations along the value stream
in any organization, how to improve efficiency, enliven creativity, and so achieve real sustainability. They will understand how to structure ongoing incremental improvement so that performance improvement becomes part of the shift to sustainability. (4 credits)

**Prerequisites**: MGT 5180 and MGT 5240

**MGT 5040 Computer Concepts and Applications: Skill in Action**
Skill in the use of office software is essential for data storage and manipulation, financial analysis, and the effective presentation of text and images. This course covers the attributes of Microsoft Word that are necessary for writing reports, elements of PowerPoint for presentations, and the functions and database features of Excel such as financial functions, lists, pivot tables, and elementary statistical analysis. (2 credits)

**MGT 5043 Financial Modeling and Data Analysis**
This course trains students to use the financial models that are most useful to accountants and shows how the models can be solved numerically and/or simulated using Excel. This course covers principles of financial modeling illustrated by the standard quantitative models and techniques used in corporate finance and in financial statement simulation and analysis. Techniques in Excel include lookup functions for standardizing data, pivot tables to summarize data, data tables for sensitivity analysis, and goal seek for numerical solution, among others. **Prerequisite**: MBA foundation course in finance or accounting.

**MGT 5090 Performance Improvement Project: Business Activity in Accord with Nature’s Law of Least Action**
Students will learn the practical and managerial skills for implementing sustainability through value based process improvement in both large and small organizations. The course is based around implementing Lean Thinking in real world situations. Students will act as junior consultants under the guidance of experienced faculty. They will learn to define value from the perspective of all the stakeholders, how to map value streams, identify waste, and facilitate Kaizen-based process improvement events. They will assist with all aspects of policy deployment, which ensures that the ongoing process improvement reflects strategic business objectives while shifting the organization towards full sustainability. (4 credits) **Prerequisite**: MGT 5020

**MGT 5100 Natural Law-Based Leadership: Developing Higher Consciousness for Greater Responsibility and Leadership**
The qualities and principles of ideal leadership are identified, examined, and developed through the examples of great leaders. This course provides the opportunity to measure how the dynamic executive in both the public and private sectors can apply management principles. (2–4 credits)
MGT 5101 Leadership for Sustainability: Developing Higher Consciousness for Greater Responsibility and Leadership
This course focuses on developing leadership strategies for a sustainable future. Students will study the value of protecting people and the natural systems that we all depend on by sensibly managing environmental challenges, such as climate change and energy evolution. We will draw on social science to apply the lenses of societal systems and power to examine what leaders are doing now about climate change and how they might make better decisions going forward. We will also draw on the Science and Technology of Consciousness to consider the role of individual and collective consciousness in addressing such broad environmental issues. (4 credits)

MGT 5102 Business Communications: Smoothing the Path for Illumination
Proper communications in written and spoken English are imperative for success in business in the US and many international markets. In this course, international students develop capabilities in English comprehension, speaking, writing, grammar and vocabulary. Students will also learn about professional business communications, including how to write a business email, a business report, and how to give a presentation. In this manner, students will discover how their abilities to illumine the path of action will be enhanced. (1 credit per semester)

MGT 5121 Environmental Law: Connecting National Law with Natural Law to Protect the Environment from Global Warming, Pollution, and Resource Depletion while Creating Abundance for All Nations
From local regulations about water quality to global initiatives like the Kyoto Accord, the law is an important tool for regulating our use of the environment. During this course, students will become familiar with international treaties and protocols on global warming, pollution, and endangered species. The class will also study the key features of American environmental law including the Clean Air and Water Act, the Environmental Protection Act, and other current policies and regulations. Perhaps most importantly, students will understand the lawmaking process as a way to use the legal system to bring about positive change and build sustainable communities. (2–4 credits)

MGT 5120 Business Law and Government Regulation: Functioning within the Legal Environment of Business for Maximum Success
This course examines key legal concepts (e.g., torts, contracts and negotiable instruments) that may affect the work of managers in the USA. In addition, students will be exposed to basic personal and corporate income tax laws and tax preparation forms. Students explore this course in the light of the relationships between man-made, national laws and the eternal principles of natural law that underlie them. (2–4 credits)
MGT 5131 Taxation: Calculating Individual and Corporate Contributions to Government Activities to Bring Fulfillment to the Goals of Society
State and federal taxation are instruments of social policy. The principles of taxation must be considered in the planning and decision-making process of every organization whether profit or nonprofit. This course surveys basic tax concepts and their use in individual and organizational tax planning. Topics include: social policy implications of taxation, concepts of income, tax reporting, taxpaying entities, deductions, property transactions, and gain or loss recognition. Students explore this course in the light of the relationships between man-made, national laws and the eternal principles of natural law that underlie them. (2–4 credits)

MGT 5141 Intermediate Accounting I: Waking Up the Organization to Self-Referral Dynamics
This course examines the conceptual framework for GAAP transaction recording and presentation of the financial statements with special focus on financial statement analysis, the role of PV calculations, requirements for reporting marketable securities, bad debt accounting, inventory costing methods, acquisition and disposition of fixed assets including non-monetary exchanges, and methods for apportioning cost of assets to periodic income statements. From the perspective of Maharishi’s Science of Consciousness, we see that as the accounting system becomes more refined, the organization increases its awareness of what is happening within itself, i.e., the collective impact economically. (4 credits) Prerequisite: MGT 5150

MGT 5142 Intermediate Accounting II: Waking Up the Organization to Self-Referral Dynamics
This course sequence provides a technical analysis of how generally accepted accounting principles (GAAP) are applied in the presentation of published financial statements. The interplay of government, the accounting profession, and the conceptual framework of accounting at the basis of formulating GAAP demonstrate how collective consciousness interacts within itself to create steps of social evolution. References are made to technical statements and pronouncements that are the sources of GAAP, covering a variety of specific topics such as accounting for leases, pensions, and inter-period income tax. (4 credits) Prerequisite: MGT 5141

MGT 5150 Financial Accounting: Using the Self-Referral Mechanism of Financial Statements to Structure an Organization’s Progress and Prosperity
Accounting systems provide financial information to guide management planning, decision-making, and control. Financial statements show the current standing and recent activities of the firm to management, stockholders, creditors, and the government. Topics include: the fundamentals of bookkeeping and generally accepted accounting principles
applied to inventory valuation, receivables and payables, depreciation of physical assets, amortization of loans, and stocks and bonds, with implications for the interpretation and analysis of financial statements. (2–4 credits)


The course explores the fundamental laws of nature that structure success in financial accounting. Content covered includes knowledge of alternative business organizations, economic concepts, financing and working capital, information technology, and management accounting. These are the topics covered in the CPA Exam Part 1. (4 credits) *Prerequisite:* MGT 5142

**MGT 5152 Auditing for Financial Accountants: Utilizing the Principle of the Second Element to Verify Financial Statements**

As independent auditors, CPAs verify the fairness of corporate financial statements and thereby enhance the confidence of those making investment decisions. Auditors play the role of the Second Element by dispelling doubts about the truthfulness of financial statements. *Topics include:* audit engagement planning, verification and testing of internal controls, and evidence sampling, collection and testing. In addition, the various types of audit report formats are examined. These are the topics covered in the CPA Exam Part 2. (4 credits) *Prerequisite:* MGT 5142

**MGT 5153 GAAP for Financial Accounting: Reflecting Collective Coherence in the Field of Accounting**

Students explore and gain the knowledge of generally accepted accounting principles (GAAP) for business enterprises, not-for-profit organizations, and governmental entities, and the skills needed to apply that knowledge. GAAP is seen as a reflection of collective consciousness that specifies rules for financial reporting. These are the topics covered in the CPA Exam Part 3. (4 credits) *Prerequisite:* MGT 5142

**MGT 5154 Ethical & Regulatory Environment for Financial Accountants: Following the Path to Right Action**

Man-made laws are created to restore the path to right action and meet social needs. In this course, students gain knowledge of legal and ethical responsibilities required for professional accountants. *Topics include:* business law concepts (such as contracts and agency) as well as specific laws (such as the Sarbanes-Oxley Act). In addition, the course covers federal taxation for individuals, partnerships and corporations. These are the topics covered in the CPA Exam Part 4. (4 credits) *Prerequisite:* MGT 5142
MGT 5160 Managerial Accounting: Creating Self-Referral Feedback Mechanisms to Provide Data for Informed Decision-Making
This course provides analytic tools and techniques to assist management in planning, decision-making, and control. **Topics include:** cost-volume-profit analysis, manufacturing costs, job order and process costing, standard costing and variance analysis, variable and full costing, fixed and flexible budgets, responsibility accounting, direct and absorption costing, and the behavioral implications of management accounting systems. (2–4 credits) **Prerequisite:** MGT 5150

MGT 5161 Financial Planning, Performance and Control: Enjoy Greater Efficiency and Accomplish More
This course examines topics covered in Part 1 (of the 2-part version) of the Certified Management Accountant (CMA) examination. Students are exposed to relevant professional skills and topics in budget planning and preparation, cost management terminology, accumulation systems, and allocation techniques. **Additional topics include:** standard costing, variance analysis, responsibility accounting, internal controls and business ethics. The course is designed to build competency for CMA exam conditions including multiple-choice questions, essays, and business simulations. Professors offer technical insights about how to develop solutions quickly. Just as business feedback loops create opportunities for improved decision making, students in this course receive valuable feedback towards successful completion of the CMA. (4 credits) **Prerequisite:** MGT 5160

MGT 5162 Financial Decision Making: Knowledge Is Gained from Inside and Outside
Both inner knowledge and information from the environment are critical to properly manage business risks. In this course, on topics covered in Part 2 (of the 2-part version) of the Certified Management Accountant (CMA) examination, the student is exposed to relevant professional skills and topics in financial statement analysis, business performance metrics, profitability analysis, investment risk and portfolio management, financial instruments and cost of capital issues, international finance, corporate restructuring, decision analysis, and investment decisions. The course is designed to build competency for CMA exam conditions including multiple-choice questions, essays, and business simulations. Professors offer technical insights about how to develop solutions quickly. (4 credits) **Prerequisite:** MGT 5160

MGT 5163 Green Building Concepts and Metrics: Structure and Function in Alliance with Natural Law
According to the US Green Building Council, buildings account for 39% of the greenhouse gas emissions in the USA. This course reveals the concepts and principles
used in measuring all environmental impacts of buildings and shows how those ideas are applied in the various metrics for rating “green” buildings, such as LEED, Maharishi Vastu, Fitwell, BREEAM, NAHB-NGBS ICC-700, ASHRAE IES-189, Green Globes. The course prepares students to take the LEED Green Associate exam. (2 credits)

Buildings are a long-lived asset. While buildings should be designed for low environmental impact, there is a science and art to renovating and operating existing buildings to achieve these goals. This course teaches the concepts and principles for measuring the energy efficiency and environmental impacts of existing buildings and prepares students for the LEED AP certification in Existing Buildings Operations and Maintenance (EBOM). (4 credits)

**MGT 5165 Metrics for Sustainability: Attention Enlivens Action in Accord With Natural Law**
The new goal of sustainability requires new metrics for measuring and reporting its achievement. This course covers systems for disclosing information about sustainability and for certifying the sustainability of products, processes, and firms. Points of theory include the concept of materiality, the institutional context of a standard, philosophies of sustainability, and systems for measurement and evaluation. Systems for disclosure include the Global Reporting Initiative and SASB. Process metrics include the ISO 14001 environmental management standard and the SA8000 social standard. Corporate metrics include the UL 880 and GS-C1 standards for manufacturers, STARS for universities, B-Corp, and corporate rating systems such as the Dow Jones Sustainability Index, Global 100, FTSE4Good, and ASSET4 ESG. Greenhouse gas assessment is treated in depth. Life-cycle analysis is considered from the perspective of a manager hiring an expert. Students taking the course for four credits will complete a research paper or project. (2–4 credits)

**MGT 5168 Computerized Accounting Systems: Skill in Action**
Modern financial management utilizes computerized accounting packages for efficient record keeping, safeguarding of assets, customer service, and financial analysis. This course reviews current computerized accounting packages and applies them to case situations. (2–4 credits) **Prerequisite:** MGT 5150

**MGT 5169 Applied Accounting Internship: Refining Skills in Professional Accountancy**
In this course, students will learn how to apply skills in financial or managerial accounting according to needs of management decision-makers in the US workplace.
Students will be assigned unpaid projects (4-6 hours per week) with local companies to apply what they have learned in the MBA program. Learning objectives will be articulated through a meeting with the Director of the MBA Program. The cooperating organization contact will provide periodic reports on progress. The student will write a reflection paper on the experience. (1-4 credits)

**MGT 5170 Data Analysis for Managers: Harnessing nature’s organizing power by using computer technology to support decision-making**

The tools of managerial data analysis enable managers to transform raw data into useful knowledge of business performance in every functional area of business by identifying meaningful patterns and relationships in business data. Increased knowledge of business processes provides a foundation for improved business decision-making and enhanced business performance. **Topics include:** principles of statistical thinking for management; numerical and graphical tools for describing and analyzing business data; applications of probability and probability distributions; hypothesis testing for business decision-making; applied multiple regression for analyzing business performance and operations through case studies using real data. (2–4 credits) **Prerequisite:** MATH 152 or the equivalent

**MGT 5180 Operations Management for Sustainable Business: Managing an Organization’s Inputs, Transformations, and Outputs to Structure Automation in Administration**

Operations management is concerned with the process of transforming inputs into higher-value outputs with maximum efficiency. **Topics include:** process design; quality management and control; lean production; supplier certification; capacity planning, facilities, and scheduling; and inventory management including materials requirements planning. Students research facility and personnel requirements, along with production and delivery plans including milestone dates for their business plan. (2–4 credits)

**MGT 5240 Statistics for Business Process Improvement: Knowledge has Organizing Power**

Students will learn key principles of data analysis and statistical thinking that underlie contemporary management approaches to improving business performance and quality through business process improvement, such as the Six Sigma and Lean Six Sigma system employed by leading companies worldwide. **Topics include:** review of one- and two-sample hypothesis tests for means and proportions, quantifying process performance using process capability analysis, statistical process control, modeling relationships between process variables using bivariate and multiple regression, and introduction to two-level factorial experiments for improving business performance. (4 credits) **Prerequisite:** MATH 152 or the equivalent
MGT 5301 SAP – Finance and Controlling: Expanding Knowledge through Increasing Discrimination
In this course, students learn key areas of the financial and management accounting (FI) module of SAP ERP. SAP FI is the core module of SAP ERP, which is integrated, with other SAP modules. Students will learn by working on the Chart of Accounts, Accounts Receivable, Accounts Payable and Asset Accounting sections in the FI module. The Controlling (CO) module supports the process of planning, reporting and monitoring operations of businesses. In the SAP CO module, the students will learn how to create a cost center, internal orders, a profit center, view and organize costs that are required for financial reporting. When SAP ERP is properly established, the management of transactions flows smoothly. (4 credits) Prerequisite: course or experience in basic financial accounting

MGT 5302 SAP – Enterprise Business Processes: Gaining Complete Knowledge Through Integration
In this course, students learn key areas of the business processes of SAP including accounting, sales & distribution processes, procurement process, and warehouse management. Students will learn not only the procedures of transaction management, but also the importance of developing hierarchical structures for organizing an enterprise’s systems. SAP provides the organizing power for action. (4 credits) Prerequisite: course or experience in basic financial and managerial accounting or permission of the instructor.

MGT 5303 SAP – ERP Configuration: Deeper Knowledge Is More Powerful
In this course, students learn more detailed functions of SAP to configure the financial accounting, procurement, fulfillment, production, material planning and warehouse management modules. Students will have greater understanding of how business processes are executed in the system and gain experience in troubleshooting. (4 credits) Prerequisite: MGT 5301 or 5302 or permission of the instructor.

MGT 5304 SAP – Enterprise Business Analytics: Knowledge Is Gained from Inside and Outside
This course gives students a thorough overview of the basic SAP tools to view and create reports in financial areas. Students will get experience with creating standard and customized reports from an actual database. Types of methods and tools include SAP Business objects, predictive analytics, query and report designers. Successful decision-making requires both awareness of the external environment and deep insights about internal operations. (4 credits) Prerequisite: Previous SAP course or permission of the instructor.
MGT 5310 Sustainable Technologies: Intelligence and Natural Law
Using an engineering-economic perspective, students explore the rapidly growing field of emerging technologies for renewable energy, energy efficiency, transportation, construction, and waste management. Students learn the units of measurement and basic terminology for process, capacity, efficiency and constraints in these technologies. In the 4-credit version of this course, students apply financial analysis to do a feasibility study for a technology implementation. (2-4 credits) Prerequisite: MGT 5550 or MGT 5160.

MGT 5311 Seminar in Sustainable Business: Source, Course, and Goal of Knowledge
This course is one of the capstone options for the Sustainable Business specialization. Students read on a subject of their choice under the guidance of the professor and present the results of their research orally to the class in stages during the course and in a final written report to the professor. (4 credits) Prerequisites: 12 credits in sustainable business and consent of the instructor

MGT 5312 Capstone Project: Integrating the Knowledge and Skills of Sustainable Business
Students will be guided by faculty in the development of a complete business plan for launching and/or running a sustainable business of their choice. The project will include sufficient real data to allow students to secure the funding and other resources for implementing the model that they develop. (2-4 credits) Prerequisites: 12 credits in sustainable business and consent of the instructor

MGT 5313 Socially and Environmentally Responsible Management: Developing Inner Intelligence to Promote Socially Responsible Action
Responsible management aims to create business value while creating positive impacts in an era of increasing expectations for transparency and sustainability. This course introduces principles and tools for identifying, measuring, and reporting social and environmental impacts through the life cycle and value chain of products. It also provides an experience of management practices for planning and executing embedded sustainability. Students work in small groups to assess the sustainability of existing companies—sharing examples of current best practices while suggesting possibilities to more fully embed sustainability and responsibly create business value. (2–4 credits)

MGT 5315 Creative Entrepreneur 1: Harnessing Nature’s Infinite Creativity to Plan and Start a Sustainable Business
Principles of management and marketing are taught from the perspective of starting a new business with an integrated business strategy. Students articulate their personal and business goals and generate ideas for a sustainable business. (4 credits)
MGT 5316 Creative Entrepreneur 2: Integrating the Principles of Management to Start a Sustainable Business
This capstone course enables entrepreneurs or intrapreneurs to dynamically integrate the knowledge of the Entrepreneurship Module in the creation of their business plan to manifest their intention. Students evaluate sample business plans, review and give feedback on classmates’ business plans, and revise and present their own business plan to faculty and mentors. (4 credits)

MGT 5340 Career Strategies: Choosing a Career to Maximize Inner and Outer Fulfillment
The course has a practical focus on career planning and entry into the job market. In the framework of Consciousness-Based principles for success, students consider their own skills, abilities, and objectives, and learn to design a career that utilizes their talents and creativity for maximum effectiveness, achievement, and evolution. They design an action plan to implement their career goals, and then work with the best Internet resources to research business and service organization profiles and industry trends. Students learn networking strategies, practice interviewing techniques, and using the telephone and Internet for extending their professional networks. They also develop scripts for introducing themselves and describing their achievements and capabilities with confidence in various formats, writing about themselves in the cover letter, resume, and portfolio, and speaking about themselves and what they can offer to potential colleagues, funding agencies and employers. (1–2 credits)

MGT 5341 Career Strategies in Information Technology
The course has a practical focus on preparing for MSCS degree-required Curricular Practical Training (CPT) in the field of computer science. In the framework of Consciousness-Based principles for success, with technical skills training support from MSCS Faculty, students consider their own skills, abilities, and objectives, and learn to design an internship that utilizes their talents and creativity for maximum effectiveness, achievement, and evolution. They design an action plan to find a CPT position that will further their career goals. Students learn networking strategies, practice interviewing techniques, and use the telephone and Internet for extending their professional networks. They also develop scripts for introducing themselves and describing their achievements and capabilities with confidence in various formats, writing about themselves in the cover letter, resume, and portfolio, and speaking about themselves and what they can offer to potential employers. Students extend their preparation into an active CPT application phase with employers. Technical interview training is provided by MSCS Faculty. Management Faculty provides application and interview coaching support that results in continuous self-improvement and self-awareness for being successful in starting
a Curricular Practical Training position. CPT success is further supported by students developing: personal budgets, IT project management skills, professional communication skills that are commonplace with U.S. employers, knowledge about income taxes and CPT regulations, and time management skills. (2 credits)

MGT 5342 Human Resource Management: Designing Systems to Attract, Retain, Motivate, and Nurture the Organization’s Most Precious Resource
People are an organization’s most important asset. Success comes from organizing and managing people to produce the products and services that customers value. This survey course exposes students to the full array of human resource functions: human resource planning, recruitment and selection, training and development, performance evaluation, and compensation. Topics include: the legal rights and responsibilities of employers, employees, and unionization. (2-4 credits)

MGT 5401 Enterprise Resource Planning
In this course, business students learn how Enterprise Resource Planning (ERP) systems permit integration of business functions into one seamless information system. Students receive in-depth training as business functional analysts in finance and control through a specific ERP software application. They will learn a five-step ERP implementation methodology: project preparation, business blueprint, realization, final preparation, and implementation. Then, students apply what they have learned to a business scenario via a simulation. Students experience how business process mapping provides the fundamental, integrated intelligence for all ERP systems. (2 credits) Prerequisite: Managerial Accounting at the level of MGT 316 or MGT 5232

MGT 5402 Principles of Business Success: Creating Maximum Value
This course provides a holistic overview of business for management majors and students from other majors. It introduces students to the principles of marketing, finance, operations, accounting, and human resource management in the context of an integrative business paradigm, and it develops communication skills as the keys to creating sustainable health, happiness, and success in personal and business affairs. Concepts are illustrated by lively examples from videos, case studies, and guest speakers. (4 credits)

MGT 5410 Information Systems Foundations: Knowledge Is Structured in Consciousness
Information and Communications technologies are a great enabler of business strategies. Effective managers have a good understanding and the capabilities to exploit the opportunities provided by rapidly evolving technologies. Students in this course learn the fundamental concepts in the design and management of information systems. Topics include different types of information systems as well as tools and technologies such as
networks, hardware, software, services and data. Attention will be paid to hot new
technologies like cloud computing, mobile computing, social networks and predictive
analytics, with a focus on their managerial implications. The course will include several
case studies and hands-on projects to develop a good understanding of information
systems. (4 credits)

**MGT 5412 Information Systems Strategy: Knowledge is the Basis of Action**
Information systems are a key enabler of a dynamic business strategy. Information
Systems consume a significant and increasing portion of an organization’s budget.
Research has shown that effective governance and deployment of information systems
can provide 20% greater return on assets. An MIS professional, aspiring to be a leader,
must know how to effectively align and deploy information systems to support business
strategy and maximize business performance. This course covers different types of
Information Systems strategies and their alignment with business strategy. The course
will include several case studies to develop a good understanding of information systems
strategy formulation and implementation. (2 credits) *Prerequisite: MGT 5410*

**MGT 5414 Management of Information Systems: The Organization of Intelligence**
Information systems consume 2–20% of an organization’s budget. Managing these
investments effectively can lead to superior business performance. The purpose of this
course is to understand the administration, control, management and governance of
computer-based information systems, projects, and relationships with the organization.
Topics include: scheduling of operations, management of computer professionals, and
planning and control of the systems activity. (2 credits) *Prerequisite: MGT 5410*

**MGT 5420 IT Project Management: Guiding the Unfoldment of Knowledge**
Good project management skills have become a critical necessity in today’s fast paced,
dynamic business environment. More and more management tasks are being executed as
projects, so skills in project planning, resource allocation and scheduling have become a
basic expertise for effective business professionals. Business managers today also need to
possess adequate expertise to manage multiple programs and vendors as firms are
increasingly relying on external vendors and partners to execute some of their corporate
initiatives. Business/IT professionals must know how to manage multiple projects, work
with multiple vendors, negotiate and manage subcontracts and effectively execute
IT/business programs. The course covers the fundamentals of project management and
includes several case studies and hands-on projects using MS Project to develop a good
understanding of project management in information systems. (2 credits) *Prerequisite:
MGT 5410*
**MGT 5440 Enterprise Resource Planning: The Flow of Knowledge**

Information systems are a key enabler of business processes and work flows in business organizations. Every large and small enterprise has implemented or is considering implementation of enterprise resource planning (ERP), customer relations management (CRM), supplier relations management (SRM), business intelligence (BI) systems and others to provide relevant information just in time in a secure way to relevant stakeholders. The purpose of this course is to understand key end-to-end business processes and discuss the key management concepts that can lead to development of competitive advantage for the business. Special attention is given to the implementation of these information systems applications. (2 credits) Prerequisite: MGT 5410

**MGT 5450 Database Management Systems: The Organization of Knowledge**

This course covers the concepts and methods associated with the definition, structure, creation, and utilization of databases for computer-based information systems. Students will undertake a class project that will require creating the logical design of business database application and implementing it using a current database development platform such as Microsoft Access. (2 credits) Prerequisite: MGT 5410

**MGT 5460 Business Intelligence and Data Mining: Intelligence Gives an Evolutionary Direction to Change**

Data in organizations is growing exponentially, doubling every 18-24 months. Structured data from traditional information systems is augmented by huge and rapid streams of data from social networks, web logs, machines, etc. Organizations need to mine the data in real time for new insights and initiatives for competitive advantage. This course will engage students and develop their ability for data-driven decision making. This course covers the fundamental concepts, the business and technical knowledge, and the practical skills required of managing and mining data to support business decision making and drive business value. This is achieved by covering a wide range of topics including Business Intelligence, Data Mining, Text Mining, Web Mining, Big Data, Artificial Intelligence, and more. Various statistical and machine learning techniques for data mining are used to analyze large datasets. Software tools such as Excel, R, Weka, and Tableau are used for data analysis and visualization. (4 credits) Prerequisite: MGT 5410.

**MGT 5465 Big Data and Artificial Intelligence Applications**

Billions of social media users, billions of websites, and trillions of devices generate an extremely volatile and voluminous streams of data. It is called Big data because it cannot be handled with traditional data management tools such as Relational DMBS. Google developed a new set of tools to manage web-scale datasets and for generating real-time reports from such streams of data. Open-source implementations of those tools such as Hadoop and Mapreduce are used widely in the industry to manage Big Data. More
recently, Apache Spark ecosystem of tools have become popular in integratively processing batch as well as streaming data. Artificial Intelligence systems such as Siri and Alexa are increasingly popular tools used to process this data and answer user questions in real time. This course will focus on learning these cutting edge technologies and how they can be deployed for business use (4 credits) Prerequisite: MGT 5460.

**MGT 5470 Systems Analysis and Design**

Systems Thinking is an organized approach of dividing and conquering a problem. The Systems Development Life Cycle (SDLC) can be visualized as having three major phases: feasibility study to justify the decision to develop a system to solve a business problem; a detailed system study to analyze the current system and design a new one to better meet the needs of the organization; and developing the system through software engineering techniques. This course focuses on the middle phase. A system will be analyzed in detail to gather requirements and its process elements analyzed for suitability and relevance to meet the needs of the system’s users. Students will learn about the iterative and creative design processes, using techniques such as data flow diagrams (DFD), Universal Modeling Language (UML), Agile Scrum models, decision tables and decision trees, etc. to provide an effective and detailed design of the system. (2 credits)

**MGT 5480 Information Technology Security**

This course is about managing risk in the Digital Age. It will introduce the interdisciplinary field of cybersecurity by discussing the evolution of threats to information systems, and the solutions to those threats. Ideally an organization will have developed a comprehensive legal and compliance strategy to mitigate and manage cyber risk. It is created by developing an overall understanding of what is necessary to analyze, design and create secure Information Systems. In this course, you’ll develop the ability to assess, mitigate and manage threats to security while learning to effectively communicate these issues within your organization.

**MGT 5490 Management Information Systems Capstone Project**

The purpose of this course is to bring together all elements of the MBA-IS courses in the form of a project. This course will require a relationship with a company, and the project will be formulated keeping in mind the needs of the employer. (4 credits)

**MGT 5500 Financial Management: Intelligently Directing the Flow of Funds to Achieve the Organization’s Strategic Goals**

Financial management provides an intelligent direction to the flow of funds for maximizing firm value. This course introduces techniques and concepts necessary to effectively manage the financial resources of any organization in order to achieve strategic goals. Topics include: the time value of money, stock and bond valuation, the
CAPM model of risk and return, capital investment decisions, the analysis of financial statements, and cash flow forecasting, and the sources of funding for a business. (4 credits)

MGT 5502 Fundamentals of Financial Analysis: Intelligence Gives an Evolutionary Direction to Change
This course for experienced managers reviews the basic ideas of discounted cash flow analysis and then covers Sharpe’s CAPM explanation of investors’ expected rate of return with applications to share pricing and share issuance. Principles of financial decision-making and capital budgeting are taught using cases and examples. (2 credits)

MGT 5512 Strategic Decision Making for Chief Financial Officers: The Whole is Greater than the Sum of the Parts
In this capstone course for the MBA accounting track, students experience an intensive online business simulation competition against other MBA schools in integrated decision-making that requires a synthesis of learned skills in operations management, finance, accounting, marketing, and human resource management. Core topics include: strategy management best practices, field trip to world-class lean manufacturer, Sarbanes Oxley Act regulations, International Financial Reporting Standards, cases in self-managed teams, and ethical practices for professional accountants. Special topics for the four-credit version include case study in operational budgeting, lean management thinking, lean accounting implementation, and issues in US-GAAP. In both versions, students experience how fully integrated 360-degree awareness is the foundation for successful decision-making. (2–4 credits)

MGT 5514 Enterprise Performance Management: Organizing Power from Self-referral Activity
This MBA Capstone course for accounting and SAP-Finance specializations offers comprehensive opportunities to integrate key knowledge and skills experienced in the MBA program. Students will participate in an intensive case study in Activity Based Costing (ABC), an on-line simulation in integrated decision-making while competing against other MBA teams around the world, and a series of business improvement methodologies supported by technology. Students will learn how to implement performance management tools to make better executive and operational decisions to achieve enhanced results. Teamwork, communication, writing and presentation skills will be part of the overall assessment. Students will see how the various courses in the MBA program have produced an enhanced skill-set for their career development. (4 Credits)

Prerequisite: consent of instructor
MGT 5551 Transcendental Meditation Program Teacher Training
This course comprises the Transcendental Meditation Program Teacher Training Course, providing the knowledge and experience of consciousness as the basis of life and preparing one to present the knowledge to others. It also gives an opportunity for personal development through deeper personal experience of the unified field of natural law and understanding of the Science of Creative Intelligence. Participation in the course does not automatically qualify a student to graduate as a teacher of the Transcendental Meditation program. Further training and fieldwork may be needed before graduation as a teacher. Academic credit for the completion of this course is offered by Maharishi University of Management, Fairfield, IA, under a contractual agreement with Maharishi University of Management, Netherlands, who controls the acceptance to the course, the cost of the course, and the content of the course. (12 credits) Prerequisites: STC 108 or FOR 500, and completion of at least one semester of MBA coursework

MGT 5552 Employee Health and Wellness: The Basis for Success and Fulfillment
The current popularity of employee wellness programs demonstrates that corporate decision makers have a growing understanding of the connection between behavior, health and productivity. This course will review best practices to promote wellness among employees by improving diet, increasing exercise, reducing substance abuse, overcoming the harmful effects of stress, and creating a culture of happiness. The course will also examine the effect that such programs can have on the overall health of the company. (2-4 credits)

MGT 5660 Strategic Human Resource Management: Utilizing the Company’s Most Precious Resource to Improve Productivity and Achieve Success
This course provides general managers with an understanding of key human resource factors needed to formulate integrated HRM systems that can support business strategies and provide a competitive advantage. Students learn about the processes that explain work behaviors, and how to promote behaviors to implement focused business strategy using staffing, development, and reward systems. The course shows how development of individual and collective consciousness produces effective HRM. Case studies and HR planning exercises relate the course to the students’ business goals. (2–4 credits)
Prerequisite: MGT 429 or MGT 5342

MGT 5681 Socially Responsible Investing: Fulfilling Individual and Societal Needs
Socially responsible investing screens companies according to their industry and operational practices, looking for the businesses that will be sustainable in the long run. This introductory course reviews the basics of investment analysis, examines the philosophy that money is colored by how it is earned, and reviews the practices and
performance of socially responsible investment funds. (2–4 credits) *Prerequisite:* one of the following courses: MGT 350, or MGT 5500, or MGT 5502

**MGT 5740 Marketing Research: Knowledge is the Basis of Successful Action**
Market research is the first activity that should be conducted when contemplating a new business or governmental activity. It is the means for refining an initial idea to a concept that is maximally supportable by the environment. The course covers specification of information needs, research design methods, sources of marketing information, analyzing and interpreting data, and developing evaluation and feedback systems. (2–4 credits) *Prerequisite:* MGT 5780 or waiver of the MBA foundation in marketing.

**MGT 5742 Product Design and Development: The Expression of Creative Intelligence**
New product development is a challenging, rewarding activity that requires multifunctional cooperation and interdisciplinary skills. Product design integrates the field of marketing and operations management, the outward and the inward perspectives on a business. It draws on market research to understand needs in the external environment, but it is an expression of the knowledge and capabilities of the entrepreneur and firm. This is a practical, hands-on course that introduces entrepreneurs to “design thinking” techniques and teaches them skills that can be applied to building cost-effective products that exceed customers’ expectations. Students test their business concept by designing a product through several iterations of prototype development and testing. (4 credits) *Recommended prerequisite:* MGT 5780 or waiver of the MBA foundation in marketing.

**MGT 5750 Internet Marketing**
This course presents the core aspects of marketing online, including usability oriented site architectures, pay per click campaigns, search engine optimization, social media and content strategies. Students develop a working website to demonstrate mastery of these concepts. (2–4 credits) *Prerequisite:* MGT 378 or MGT 5780

**MGT 5751 Analytics for Internet Marketing**
Web analytics is a process that extracts useful business intelligence from data about customer behavior on the Internet. In this course, students learn how to use industry-standard analytics tools to both measure return on investment and make adjustments to online presentations in order to maximize success in achieving key performance goals. (2–4 credits) *Prerequisite:* MGT 5750
MGT 5771 Financial Reporting with XBRL: Transformation through Coherence
In this course, business students learn how to tag SEC required financial statements using the eXtensible Business Reporting Language (XBRL). Students will receive basic foundation level training in Extensible Markup Language (XML) and will learn to tag the data in two ways: first, by using an XBRL software program, and second, by manually looking up the US-GAAP taxonomy and creating the tags using Notepad. Students will apply what they have learned by creating an instance XBRL document containing tagged data from a sample company's financial statement. Students experience how the XBRL tagging process leads to transformation of financial statements into a coherent format that facilitates SEC reporting. (2 Credits)

MGT 5772 Reporting and Auditing with the GRI Standard: Intelligence Gives an Evolutionary Direction to Change
A balanced sustainability report communicates an organization’s positive and negative impacts by providing information about an organization’s economic, environmental and social performance against set guidelines or an established framework. In this course, students learn how to coordinate the reporting process using the Global Reporting Initiative framework (GRI Standards). Points of theory include the relevance and importance of materiality and stakeholder engagement in sustainability reporting using the GRI Standards, the type and level of assurance required by an organization and its stakeholders, and how to assure the reliability and confidence in an integrated sustainability report in compliance with GRI Standards through the assessment of an organization’s internal controls. The course treats reliability and assurance assessment using the COSO framework and the GHG Protocol, and it gives an overview of the audit assurance engagement process. (4 credits)

MGT 5773 Reporting and Auditing with the SASB Standard: Intelligence Gives an Evolutionary Direction to Change
Like MGT 5772, this course treats the methods for reporting on sustainability and for auditing sustainability reports but through the SASB Standard (Sustainability Accounting Standards Board.) As with the study of the GRI Standard, the course treats reliability and assurance assessment using the COSO framework and the GHG Protocol, and it gives an overview of the audit assurance engagement process. Recommended prerequisite: MGT 5772. (2 credits)

MGT 5775 Using SAP-SPM for Corporate Sustainability Management and Reporting
Among the Fortune 500, the dominant software system for enterprise resource planning is SAP. This course studies the SAP module for Sustainability Performance Management
(SPM) and prepares students to use it for corporate sustainability management and reporting. (2 credits)

**MGT 5776 Sustainability Reporting for Small and Medium Enterprises: Social Responsibility and Organizational Consciousness**

The standards that large corporations use for reporting on sustainability, such as GRI and SASB, are not well suited to small and medium enterprises (SMEs). These companies cannot pay a six-figure expense for sustainability reporting, nor should they use an exclusively stakeholder-oriented approach to determining the materiality of topics for reporting. To a greater extent than in large companies, the culture and collective consciousness of SMEs is expressed in the values of the owners and employees, which influence sustainability reporting in unique ways. (4 credits)

**MGT 5780 Marketing Management: Creating a Positive Influence to Attract, Satisfy, and Retain Customers**

Marketing is the process of creating exchanges that satisfy individual and organizational objectives. This course covers market research methods to understand consumer behavior and market segmentation with implications for product design and policies on advertising, pricing, distribution, and sales force management. (2–4 credits)

**MGT 5781 Green Marketing: Promoting Evolutionary Values**

At the heart of sustainable business are customers who want sustainable products and value sustainable practices. This course explores the evolution of market segments in the sustainability arena, the range of “green” products and services, marketing research for radical product redesign, the role and use of eco-labels, marketing strategies for green products, and the current FTC rulings on environmental marketing claims. (2–4 credits)

*Prerequisite*: MGT 5780 or equivalent

**MGT 5810 Employment Law: Aligning Behavior with Natural and National Law**

This course examines the growing body of employment-practices law and its impact on human resource policy and decision-making. *Topics include*: equal employment opportunity and discrimination, occupational safety and health, compensation and benefits, employee protection, and labor relations. Special issues (e.g., adverse impact in employee selection, wrongful discharge, sexual harassment, disabilities) are discussed in the context of statute, case law, and implications for managers in the work setting. (1–4 credits)
MGT 5820 Leadership and Management: Principles That Support the Consciousness Basis of Leadership
This course focuses on leadership principles in a digital disruptive environment, including leadership styles and management practices. The emphasis is on the application of leadership theories, concepts, and skills through self-assessment, value exploration, personal reflection, group feedback, and practice. Students will learn how personal development and leadership styles integrate with organizational effectiveness. (2–4 credits)

MGT 5821 Leadership and Teamwork: Leading from the Field of All Possibilities
World-class leadership in organizations involves both knowledge about and skills in leading individuals and teams. In this course, students practice effective leadership behaviors, teamwork, and communication through writing emails and making PowerPoint presentations. They also discover leading-edge techniques in behavioral-based interviewing, managing employee performance, and creative employee recruitment techniques. Students will be challenged by individual and small group projects, case studies, Harvard Business Review articles, field trips, and guest speakers. (2 credits)

MGT 5828 Communication Skills for Managers: Maintaining a Cool Mind and a Warm Heart
Communication skills are vital for every leader or manager. This course develops the skills of engaging with others, listening, managing emotions, problem solving and empowering yourself and others. These are skills to be used not only in the workplace, but in every area of your life.

MGT 5829 Culture and Conflict Resolution: Appreciating that the World is Our Family (2 credits)
Cultural differences are often the cause of conflict. In this course students will learn to appreciate personal differences that have national, religious, social or cultural origins. By embracing inclusivity, we can create a harmonious and smoothly functioning work group. Students will apply this knowledge in real case scenarios.

MGT 5830 Mediation and Negotiation: Utilizing the Deepest Principles of Human Nature to Create Win-Win Solutions
This course is a survey of methods of resolving disputes without litigation in the public as well as private sectors. Students gain practical negotiation skills through participation in negotiation and mediation workshops and the analysis of case studies. Topics include: understanding the perspective of other parties, analyzing the structure of negotiations, building a productive framework for negotiation, defining objectives and strategy, framing proposals, and finding “win/win” solutions. (2–4 credits)
MGT 5831 Negotiation in the Workplace: Giving is the Basis of Receiving
We all negotiate every day. Learn the skills needed to be a successful negotiator. Topics include: Negotiation styles, tactics, defining objectives and planning strategy, gaining the perspective of the other party to find win/win’ solutions. Students will have the opportunity to negotiate case scenarios with each other. (2 credits)

MGT 5832 Mediation: Applying the Principle of the Second Element to Resolve Conflict
Mediation is a tool to resolve conflict when negotiation and communication has broken down. Mediators provide a new perspective on a situation and facilitate agreement between parties. Topics include: structure and framework of a mediation, tactics and strategy and creative problem solving. Students will participate in several mock mediations. (2 credits)

MGT 5834 Conflict Resolution in Teams
Teamwork is an important part of every organization. This course will examine conceptual models of team effectiveness to gain insight into the management, resolution and prevention of conflict in work groups, with a special focus on leadership behaviors for conflict resolution. (2 credits)

MGT 5835 Organizational Design to Minimize Conflict (2 credits)
The frustration that people experience in the workplace can be the result of organizational structure, design and operation. An employee’s poor performance might be due to role conflict, or ambiguity, poorly designed communication systems or conflict with an unwritten organizational culture. This course will focus on how organizations can be redesigned to enhance harmony and productivity. (2 credits)

MGT 5836 Difficult People and Difficult Conversations: Perform Action Supported by the Field of All Possibilities
In this course students will develop and use their emotional intelligence to handle high conflict personality types and other difficult people. They will practice difficult conversations with peers, subordinates and supervisors. They will perfect the art of giving and receiving feedback. (2 credits) Prerequisites: MGT 484/MGT 5830 or MGT 5831 and MGT 5832

MGT 5837 Transformational Coaching: The Nature of Life is to Grow
Learning to lead and coach for transformational change in the individual and the organization is the focus of this course. Topics include: balancing of power, committed
listening, overcoming impasse, transcending conflict, heartfelt conversation, forgiveness, and preventative conflict resolution. (2 credits) Prerequisites: MGT 484/MGT 5830 or MGT 5831 and MGT 5832

MGT 5838 Capstone Project in Leadership and Workplace Conflict Resolution: Action is the Basis of Fulfillment
In this course students will assemble a portfolio of their experiences of real-life conflict resolution in the workplace and reflect on what they have learned. (2 credits)

MGT 5852 Lean Accounting Transformation: Flow According to Nature’s Principle of Least Action
As Lean Management techniques sweep the world, accountants are asked to prepare reports and support decision-making utilizing new paradigms and new reporting tools. In this course, students discover the IMA’s principles of Accounting for the Lean Enterprise that reflect nature’s principle of least action. Through case studies, guest lectures, articles, and field trips, students will explore how to: (a) support Lean Management transformation by preparing reports that will facilitate analysis and decision-making, and (b) implement Lean Management techniques to improve internal accounting services. (4 credits) Prerequisite: MGT 316 or 5160 or consent of the instructor

MGT 5853 Systems for Developing Organizational Excellence: Maximizing Sustainable Organizational Brilliance
In the past ten years, business leaders around the world have developed new methodologies to steer their organizations towards sustainable achievement of “Triple Bottom Line” success, i.e., financial results, social responsibility, and environmental stewardship. In this course, students will learn about the major programs for developing organizational excellence including Six Sigma, Lean Management, Balanced Scorecard, Continuous Process Improvement (kaizen), and other best practices methodologies. (2 credits)

MGT 5854 Lean Management Principles: Managing According to Natural Law
Through selected journal and website articles, students are introduced to the basic concepts of Lean Management as exemplified in the Toyota Production System. The elements, rules and tools of lean are explored as a methodology for aligning an organization’s strategic and operational plans to be consistent with nature’s organizing principles. Students write essays and take online quizzes to demonstrate mastery of the material. (2 credits)
MGT 5855 Lean Accounting I: Transformation through Organizational Self-referral
To effectively support lean management initiatives, accountants must embrace new procedures to prepare management reports that focus on inventory size reductions, tracking of waste and failure costs, and improved productivity and occupancy costs. They must reveal the causal factors that drive lean success. They must think creatively about how to structure compensation systems that encourage lean behaviors. Through articles, case studies, lectures, and written assignments, students will gain a solid foundation for facilitating lean transformation. (2 credits) Prerequisite: MGT 5142

MGT 5856 Lean Accounting II: Creating Coherence in the Flow of Accounting Services
In this course, students learn how to apply the concepts of lean management to streamline accounting processes and to better meet the needs of the internal customers who use accounting services. Students learn how to assess internal customer requirements, how to map accounting value streams, how to identify non-value added activities, and how to conduct kaizen events to continuously improve accounting services. (2 credits) Prerequisite: MGT 5855

MGT 5857 Cases in Lean Management and Accounting: Sharpening the Intellect to Improve Performance
Through detailed case studies and articles, students dig deeply into the details of how organizations have applied lean concepts to improve key management systems and accounting business processes. Topics include: performance metric systems, revised compensation incentives, revised management accounting reports, work cell box scores and balanced scorecard implications. (2 credits) Prerequisite: MGT 5855

MGT 5858 Implementing Lean Accounting in Organizations: Applying the Principle of Least Action for Maximum Success
In this course, students are required to either implement some aspect of lean accounting within their organization or to write an instructional case study on some aspect of lean accounting. Faculty approves projects based on proposal submissions. Guidelines will be provided on case study write-ups. (2 credits) Prerequisite: MGT 5855

MGT 5859 U.S. and International Accounting Practices: Order Is Basis of Success
In this course, important topics are covered to orient international accounting professionals to the USA workplace. Students review US-GAAP procedures for accounting for payrolls, uncollectible accounts receivable, and marketable securities. Additional topics include: preparation of financial statements, provisions of Sarbanes Oxley Act, convergence issues regarding IFRS, financial ratios for investments, and
foundations of strategic planning. Students experience how the GAAP rules and specific laws create the framework for order in recording financial transactions and developing internal control systems. (2 credits) **Prerequisite:** MGT 315 or 5150 or consent of the instructor

**MGT 5861 Online Business Analytics**
Web analytics is a process that extracts useful business intelligence from data about customer behavior on the Internet. In this course, students learn how to use industry-standard analytics tools to both measure return on investment and make adjustments to online presentations in order to maximize success in achieving key performance goals. (2–4 credits) **Prerequisite:** MGT 5750

**MGT 5871 The STARS metric for University Sustainability**
The Association for the Advancement of Sustainability in Higher Education (AASHE) created the STARS metric (Sustainability Tracking and Rating System) specifically for universities. This course covers the range of topics in sustainability reporting as they are reflected in the STARS system. In the 4-credit option, students will use STARS to perform a sustainability analysis on a college or university. (2–4 credits)

**MGT 5872 The LEED For Cities and Communities Metric: Relationship of the Community and the Environment**
In 2018, the US Green Building Council brought into its LEED system the metric for cities that had been known as STAR Communities. LEED gave that system more of a focus on environmental impacts and now promotes it as LEED for Cities and Communities. Many large cities in the USA and abroad are starting to seek certification using this metric. Students in this course will use LEED for Cities and Communities to perform a sustainability analysis on a city or community. (4 credits)

**MGT 5873 Corporate Sustainability Rating Systems: Holistic Accounting**
Financial information service firms such as Dow Jones, Bloomberg, Sustainalytics and Financial Times have created systems for rating publically traded companies according to their sustainability. They publish or sell this information to investors. That makes these systems different from the voluntary certification systems such as STARS for universities and LEED for cities, though both types of system produce a summative evaluation of the sustainability of an organization. This course gives students a “look under the hood” at corporate sustainability rating systems such as the DJSI, FTSE4Good, ASSET4ESG, Global 100, and Sustainalytics ESG. (2-4 credits)
MGT 5874 Greenhouse Gas Accounting—Carbon Footprinting: Knowledge is the Basis of Action, Achievement, and Fulfillment
A significant component of corporate social responsibility is the impact of a firm on the environment, and the environmental impact most widely reported by companies is a firm’s contribution to climate change through the emission of greenhouse gases (GHGs). In this course, students learn first how to calculate their personal carbon footprint and then extend that to the simple case of a service firm. In the 4-credit version of this course, students learn from more complicated cases in manufacturing and get exposure to the various standards, guidelines, and datasets for GHG Accounting seen in the GHG Protocol, Carbon Disclosure Project, Carbon Trust, ACUPCC, Climate Registry, and the US Dept of Energy. (2-4 credits)

MGT 5881 Sustainable Community Development: Building a Whole that is More Than the Sum of Its Parts
The aspiration of individuals to meet present needs without compromising the ability of future generations to meet their needs is most effectively undertaken on the community level. This course will focus on how to foster sustainable communities through public policy, corporate citizenship, economic development, and social marketing. As part of the course, students will prepare and give presentations to local community leaders to inspire and help them take action. (2–4 credits) Prerequisite: MGT 382

MGT 5910 Practicum Away: Stabilizing Knowledge Gained with Practical Experience
Action creates the steps of progress. Students gain hands-on accounting experience with a U.S. company as a financial analyst, staff accountant, internal auditor or another type of accounting-related work. Training goals and objectives will be developed in conjunction with the on-site company supervisors. Students write a case study based on their experience at work. (2–4 credits)

MGT 5911 Required IS Practicum
Action creates the steps of progress. Students gain hands-on experience with a U.S. company as an information systems professional. Training goals and objectives will be developed in conjunction with the on-site company supervisors. Students write a case study based on their experience at work. (2–4 credits)

MGT 5930 Topics in SCI and Management: Applying the Organizing Power of Nature’s Management
Contacting the source of pure intelligence within the individual is the foundation of ideal management. This course covers a variety of topics in the Science of Creative Intelligence. (1–4 credits — may be repeated for credit, subject to satisfactory progress in
the previous course and a clear plan for the progression of learning in the subsequent course)

**MGT 5940 MBA Research Report**
The goal of this course is to cultivate the holistic and specific values of management in the awareness of the student. Students research a firm in the context of its industry to identify the firm’s strengths, weaknesses, opportunities, and threats. Each student’s project concludes with either an evaluation of the firm’s apparent strategy, a strategy formulation for the firm, or a business study for an entrepreneurial business venture. (4 credits)

**5950 Strategic Management**
This course introduces the key concepts, tools, and principles of strategy formulation and competitive analysis. The course assumes a broad view of the environment that includes buyers, suppliers, competitors, technology, the economy, capital markets, government. It takes a lifecycle analysis perspective on the sustainability impacts of the business in the natural environment and society. The key strategic business decisions of concern in this course involve selecting competitive strategies, creating and defending competitive advantages, and allocating critical resources over long periods. Students will identify how business can compete by incorporating sustainability into their processes, products, policies, and public relations.

**MGT 5952 Strategies for Sustainable Business: Enlivening Natural Law**
This course begins with an analysis of mankind’s effect on the natural environment and the concept of natural capital. The stakeholder concept leads into the environmental and social requirements of sustainability. Other topics foreshadow later courses in the sustainable business track and reveal business risks and opportunities associated with sustainability: metrics for sustainability, sustainable technologies, sustainable human resource management, green marketing, and leading organizational change for sustainability. (2–4 credits)

**MGT 5960 Capstone Project: The Source, Course and Goal of Knowledge**
Students may register for this course to complete a capstone project in their MBA track or masters degree. (2-4 credits)

**MGT 5970 Special Topics in Management**
This course covers advanced topics in management approved by the department chair for a single offering by a faculty member. (1–4 credits)
MGT 5980 Internship: Skill in Action
During internships students apply the knowledge from their management courses in supervised practical settings. (2 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Prerequisite: consent in the form of a written authorization by the International Student Advisor

MGT 5980B Business Internship: Skill in Action
During internships students apply the knowledge from their management courses in supervised practical settings. (2 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Prerequisite: consent in the form of a written authorization by the International Student Advisor

MGT 5980U University Internship: Skill in Action
During internships students apply the knowledge from their management courses in supervised practical settings. (2 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Prerequisite: consent in the form of a written authorization by the International Student Advisor

MGT 5990 Directed Study
(variable credits) Prerequisite: consent of the Department faculty

MGT 601 Organizational Behavior Theory and Research
A review of the classic works in the Organizational Behavior (OB) literature, this course examines the main issues and questions addressed by OB since its inception in the late 1930s, including motivation, small group behavior, leadership, power, and organizational culture and change. Students will develop hypotheses for how expansion of consciousness influences organizational behavior. (4 credits)

MGT 606 Socially and Environmentally Responsible Management: Developing Inner Intelligence to Promote Socially Responsible Action
An increasing number of organizations are concerned about social and environmental responsibilities in the context of sustainable development, and they are interested in developing tools to improve their performance and accountability in these areas. This course introduces students to these issues with emphasis on current research in these fields. The key to sustainable progress is to align individual and collective consciousness with total Natural Law available in the Self of everyone. Topics include: business ethics,
stakeholder influences, corporate social responsibility, environmental management, natural capitalism, triple bottom line reporting. (2-4 credits)

**MGT 607 Assessing Human Development: Measuring Growth of the Sustainable Mind**

Scientific measurement of individual characteristics provides a research framework for assessing individual and organization development toward higher states of consciousness. Development of the mind toward higher states of consciousness provides the natural foundation for enhancing employee performance, growth of enlightened leadership, and organization transformation toward sustainability. **Topics include:** the construction and use of valid and reliable assessment instruments. (4 credits)

**MGT 616 Planning and Decision-Making: Knowledge is for Action, Achievement, and Fulfillment**

The course will draw upon research from economics, psychology, political science, and sociology to arrive at a comprehensive perspective of organizational decision-making. This course will start with a review of individual decision behavior and will move to discuss decisions made in aggregates of individuals. Important applications of decision-making include policy-making, program planning, budgeting and efficient resource allocation. (2 credits)

**MGT 628 Introduction to Multivariate Data Analysis: Gaining More Comprehensive Knowledge through Expanded Awareness**

This course provides a conceptual introduction to the multivariate statistical methods most commonly used in management research in order to prepare students to critically read the quantitative management research literature and begin preparation of their own dissertation research proposal. **Topics include:** review of simple linear regression and correlation, multiple regression, logistic regression, discriminant function analysis, univariate comparison of means (analysis of variance), multivariate analysis of variance, principal components and factor analysis, path analysis and structural equation modeling, and multilevel modeling. (4 credits)

**MGT 631 Multiple Regression Analysis: Discovering the Order and Precision of Nature’s Intelligence**

This course examines contemporary procedures of applied multiple regression analysis for business data. **Topics include:** review of simple regression, hypothesis tests and confidence intervals, modeling nonlinear regression relationships, model specification strategies, diagnostic testing of model adequacy, robust regression, categorical explanatory variables, outliers and influential observations, path analysis, and logistic regression. (4 credits) **Prerequisite:** MGT 5240.
MGT 634 Applied Multivariate Data Analysis: Gaining Holistic Knowledge through Broader Comprehension
This course provides a hands-on introduction to applied multivariate analysis in management research. Students analyze real data sets using state-of-the-art software. Particular attention will be devoted to the selection of appropriate method, interpretation and description of results, and checking of assumptions. Topics include: univariate analysis of variance and covariance, multivariate analysis of variance and covariance, principal components and factor analysis, confirmatory factor analysis, and discriminant analysis. (4 credits) Prerequisite: MGT 628.

MGT 635 Quantitative Research Design: Unified Knowledge through Subjective and Objective Approaches
This introductory course begins with the logic of causation and correlation in social science. We review the steps of scientific inquiry: literature review, theory development, operationalization and measurement of variables, data collection and analysis, interpretation, and write-up. Experimental and quasi-experimental research designs are treated specifically. Topics include: the types of validity, the “control” of extraneous influences by design or by statistical methods, and the relationship between research design and statistical testing. (4 credits)

MGT 636 Qualitative Research Methods: Researching from the Field of Pure Subjectivity
Qualitative research is often used in research on complex behavioral systems and in the exploration of a new field of study. Using methods such as participant observation, unstructured interviewing, and the examination of documents, a scholar can form theories that may be later tested by quantitative methods or validated on other samples. Particular attention is given in this course to the methodology of grounded theorizing in multiple case studies and problems of data analysis, interpretation, and generalization. (4 credits)

MGT 676 Organizational Development and Change: The Nature of Life is to Grow
What are the findings of behavioral sciences regarding effective practices for the transformation of organizations and communities to more effectively achieve holistic positive outcomes? This course will examine selected research on topics such as understanding barrier and enablers, managing behavioral change, positive leadership, stakeholder engagement, and conflict resolution. Development of individual, organizational, and societal consciousness expresses itself in new management practices and forms of organization that enable organizations to innovatively address social and environmental needs. (4 credits)
MGT 678 Outcomes Measurement for Sustainable Business: Attention Enlivens Action in Accord with Natural Law
A cutting edge of research in sustainable management is the development, adoption and validation of systems for measuring and reporting sustainability outcomes. This course reviews current research regarding measures used in “triple bottom line” reporting: financial performance, employee health and wellness, social responsibility, and environmental impact. The course also covers the processes for creating and institutionalizing new standards for performance at the level of the product, plant, firm, and society. (2-4 credits)

MGT 679 Research Seminar in Sustainable Management: Perceiving Subtler Knowledge Through Refined Awareness
Topics in sustainable management will be chosen according to current research interests of students and faculty. (2-4 credits)

MGT 680 Research Seminar in Educational Management and Public Sector Management: Perceiving Subtler Knowledge Through Refined Awareness
Topics in Educational Management and Public Sector Management will be chosen according to current research interests of students and faculty. (2-4 credits)

MGT 690 Preparation for the Qualifying Examination: Effective Planning from the Field of All Possibilities
This course provides the time necessary to prepare for the qualifying examination, which demonstrates research competence. It may be in the form of a research proposal, or in another form at the discretion of the program faculty. After successful completion of this examination, students advance to the status of PhD Candidate. (4 credits — may be repeated for credit) Prerequisites: completion of all core curriculum and consent of the graduate faculty

MGT 691 Teaching Practicum
Doctoral students learn the theory and methods of postsecondary curriculum development and teaching in this course through their work as instructors and teaching assistants and through their participation in a seminar with the professor.

MGT 692 Seminar on Writing: Communicating Knowledge in Terms of Wholeness
This course prepares doctoral students to be competent in the conception, organization, writing, and presentation of scholarly works. (2-4 credits)
MGT 693 Seminar on Teaching: Learning the Techniques of Consciousness-Based Education to Deliver Education for Enlightenment
This course introduces doctoral students to the principles and practices of Consciousness-Based Higher Education. Topics include: instructional charts, principles of ideal teaching, and effective course and lesson design and assessment. (2–4 credits)

MGT 698 Research Practicum: Stabilizing Knowledge through Practical Action
Students develop research skills through hands-on experience in research activities such as literature review, instrumentation, data collection, data analysis, and report writing. (2-4 credits)

MGT 699 Directed Study
(variable credits) Prerequisite: consent of the PhD program director

MGT 700 Preparing the Dissertation Proposal: Elaborating the Seed Idea from Wholeness to Point Using Nature’s Sequential Steps of Progress
Having gained doctoral candidacy by completing the comprehensive and qualifying examinations, students prepare a proposal for a doctoral dissertation that is acceptable to their major professor and dissertation committee. (8 credits per semester — may be repeated for credit) Prerequisites: PhD candidate status and consent of the dissertation advisor

MGT 701 Dissertation Research: Research into the Transcendental Field of Consciousness as the Basis of Personal, Business, and Academic Success
Students conduct original research and prepare their dissertations. (8 credits per semester— may be repeated for credit) Prerequisites: approved dissertation proposal and permission of the dissertation committee

Government Courses

GOV 290 Collective Consciousness and World Peace
From the perspective of the Science of Creative Intelligence and Maharishi Vedic Science, students explore the principles and dynamics of collective consciousness and their relationship to governmental functioning, societal trends, and the quality of life in society. Students examine published evidence verifying the beneficial changes in society produced by the group practice of the Transcendental Meditation and TM-Sidhi programs, with particular reference to the implications of these technologies of consciousness for enhancing governmental achievements and promoting world peace. (4 credits)
GOV 400 Special Topics in Government: Exploring the Field of All Possibilities in Government
Possible topics include international trade and competitiveness, health economics and health policy, public sector management, comparative government, and international organizations and regimes. (4 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Prerequisite: consent of the Department faculty.

GOV 402 Making Peace with the Earth: Global Environmental and Food Law and Policy for a Small Planet
This course will identify some of the key global environmental and food challenges facing the planet, the international treaties that are currently in place to address them, and what new paradigms, policies and laws we will need to create in this century to make lasting peace with our planet and ourselves. (4 credits)

GOV 445 Environmental Law: Connecting National Law with Natural Law to Protect the Environment from Global Warming, Pollution, and Resource Depletion while Creating Abundance for All Nations
From local regulations about water quality to global initiatives like the Kyoto Accord, the law is an important tool for regulating our use of the environment. During this course, students will become familiar with international treaties and protocols on global warming, pollution, and endangered species. The class will also study the key features of American environmental law including the Clean Air and Water Act, the Environmental Protection Act, and other current policies and regulations. Perhaps most importantly, students will understand the lawmaking process as a way to use the legal system to bring about positive change and build sustainable communities. (2–4 credits)

GOV 484 Mediation and Negotiation: Utilizing the Deepest Principles of Human Nature to Create Win-Win Solutions
This course is a survey of negotiation, mediation, and arbitration methods of resolving disputes without litigation. Students gain practical negotiation skills through workshops and case studies. Topics include: strengthening communication skills, understanding other parties’ needs and goals, building a productive framework for negotiation, defining objectives and strategy, framing proposals, and finding “win/win” solutions. (This course is the same as MGT 484.) (2–4 credits)

GOV 498 Internship in Government: Developing Skill in Action
This course gives students practical experience in a branch of national government or in state or local government. Students maintain journals that record their experiences during their internships. Students pay their own transportation costs, if travel is required. (4
credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course)

Prerequisites: consent of the School and the Academic Standards Committee

**GOV 499 Directed Study**

(variable credits) Prerequisites: consent of the Department Chair and Academic Standards Committee
INTRODUCTION

We live in an era of globalization. More than ever before, all forms of communication and creative expression are being enhanced by the Internet and the power of ever-advancing digital technology. This development of technology and creativity has provided an unprecedented opportunity to explore all forms of communication to transform the world.

The Department of Cinematic Arts and New Media offers a wide variety of programs to students passionate about change-making. At the heart of our teaching at Maharishi University of Management is the Transcendental Meditation technique, a practice that gives students direct access to the source of creativity within, the wellspring of all human potential. All of our courses encourage a holistic, sustainable routine founded in an authentic, relationship with the Self.

The goal of the BA in Cinematic Arts and New Media is to teach students a range of essential skills and technical knowledge of film making, web design, graphic design, and music/audio. Our emphasis is on developing the creativity of the student and providing the mentorship, equipment, and creative community necessary to achieve outstanding projects. Typical career paths for our graduates include opportunities in the film industry, television, online media, music production, and the arts.

SPECIAL FEATURES

The Cinematic Arts and New Media curriculum at Maharishi University of Management is intentionally structured in a flexible way to make it easy for students to work in depth in new ways and to launch their career in the classroom, as the world of media continues to transform and evolve at extraordinary speed at this time in history.
The curriculum also places a significant emphasis on gaining deep understanding of storytelling in all media. Human beings are hard-wired to understand the underlying patterns of life, and this perhaps accounts for our intrinsic attraction to stories.

Students in our program explore in detail the fundamental patterns, structures and components of story as powerful tools for engaging an audience in whatever media in which they choose to communicate through. Simultaneously they engage in their own journey of awakening to greater creativity and intelligence through daily practice of the Transcendental Meditation technique. In this way students develop both themselves and their media skills in their own journey to successfully express their creativity in the new world of media.

**PROGRAMS OFFERED**

**BA in Cinematic Arts and New Media**

In the undergraduate program, students may specialize in up to three career areas:

- **Film** — producing • directing • acting • lighting • cinematography • nonlinear editing • documentary production • feature film production • motion graphics • stop-motion animation • visual effects • 3D animation • radio • Internet broadcasting

- **Digital Arts** — digital image editing and compositing • graphic design for print media • graphic design for interactive media • digital photography • travel photography • typography • Web graphics • Web development • Web video • interactive design • digital publishing

- **Music** — songwriting • music theory • music technology • creative musicianship • digital music production • music for film • post-production sound and design

The curriculum includes opportunities for real-world internships where students can apply their skills, develop their portfolios, and gain valuable experience and contacts for launching their careers. To complete their Cinematic Arts and New Media degrees, our students are encouraged to take electives through the Department of Art, the Department of Creative Musical Arts, the Department of English: Creative Writing and Literature, and the Department of Business Administration.

**DEPARTMENTAL REQUIREMENTS**

**Graduation Requirements for the BA Degree in Cinematic Arts and New Media**

To graduate with a BA in Cinematic Arts and New Media, students must successfully complete all requirements for a bachelor’s degree. (Please refer to “Degree
Requirements” in “Academic Policies.”) As part of these requirements, students must complete 48 credits of coursework from the list below, including at least 32 credits of coursework from the Department of Cinematic Arts and New Media.

8 credits of required core courses:
• MC—W250 The Power of the Word
• MC—W300 The Art of Story

plus 4 credits from Film courses (pick one):
• Any MC—F course level 200 and above

plus 4 credits from Music or Sound courses (pick one):
• Any MC—M course level 200 and above

plus 4 credits from Writing or Literature courses (pick one):
• Any MC—W, WTG, or LIT courses level 200 and above

plus 20 credits of elective courses:
In the electives, students develop their skills in one or more of the foundational areas of their choosing by completing 16 credits from the following:
• Any MC course
• Any design, media, or photography course from the art department
• Any course on entrepreneurship, marketing, business law, or advertising from the business department
• Any WTG course offered by the Department of English: Creative Writing and Literature
• Any LIT course on film history or media

plus 4 credits from advanced courses:
• MC 380 Media Projects (4 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course)
• MC—W351 The Writing Room (4 credits)
• MC—F322 Advanced Pre-production (4 credits)
• MC 580 Advanced Production (4 credits)
• MC—F326 Advanced Post-Production (4 credits)
• MC 451 Changemaker Studio (4 credits)
Graduation Requirements for a BA-AAS Specialization in Cinematic Arts and New Media

Students have the option to take a specialization in Cinematic Arts and New Media through the BA in Applied Arts and Sciences. This specialization requires only 32 credits of course work in the Department of Cinematic Arts and New Media and a Senior Project that has a significant media component. For additional details, see the Department of Applied Arts and Sciences.

Graduation Requirements for a Minor in Cinematic Arts and New Media

To graduate with a minor in Cinematic Arts and New Media, the student must complete MC-W300 The Art of Story plus 16 credits of other courses listed as required or elective for the BA in Creative Arts and New Media.

Graduation Requirements for a Minor in Creative and Professional Writing

Cinematic Arts and New Media students are encouraged to emphasize Creative and Professional Writing as part of their degree package. Creative and Professional Writing courses are offered through the Department of English: Creative Writing and Literature. Graduation requirements for a minor in Creative and Professional Writing are listed under the Department of English.

Graduation Requirements for a Minor in Literature

Cinematic Arts and New Media students are encouraged to emphasize Literature as part of their degree package. The Literature program is offered through the Department of English: Creative Writing and Literature. Graduation requirements for a minor in Literature are listed under the Department of English.

COURSES

Cinematic Arts and New Media Courses

For the descriptions of courses in this degree program taken from the Departments of Art, Creative Musical Arts, English: Creative Writing and Literature, and Business Administration, please refer to the sections of this catalog for those departments.

MC 291 Introduction to Animation

MC 376 Media Lab: Experiment with the Full Range of Creation.

In this project-based course, the faculty will review the work produced by advanced students up until the course, then the faculty will guide, mentor and assist students in
improving upon and achieving their highest creative vision. In this course, students will be encouraged to experiment and approach their creative process from a place of freedom and intuition. The faculty will facilitate a more exploratory approach to media and cinematic arts and expose the students to a range of filmmakers, artists, musicians, and other such creators to get inspiration and learn from them. At the end of the course, students should have their best work fine-tuned, and be able to create from a deeper level. Prerequisites: MC F282 and 12 credits in one of the concentrations; or consent of the instructor

**MC 380 Creative Studio: Turning Imagination into Reality**
This is a capstone course in which individuals who have taken the courses in Cinematic Arts and New Media or other programs, to come together to envisage and then realize a set of core projects across a range of media. These projects are formulated among the student group with the aid of faculty members. The first stage of the course will be the generation of the project ideas, which can include ideas that utilize a range of media or ideas that are focused on a particular medium, film, music, websites, etc. The central goal of the course is for students to apply everything they have learned to these projects. This can be a cooperative venture, so students can be involved in a variety of projects playing different roles on each one. The idea is to produce great projects that get noticed. The Creative Studio can be taken as one block for 4 credits or two blocks for 8 credits (may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course). Prerequisites: courses that teach skills that will be used on the Creative Studio. Creative Studio provides the ideal setting to undertake the senior project for those students who are graduating.

**MC 398 Internship in Creative Arts and New Media: Integration of Knowledge and Action**
Students gain practical experience working for a commercial or nonprofit organization in a communications or media related field, such as video production, film production, radio broadcasting, Web design, graphic design, advertising, public relations, or journalism. Students document their growth in understanding and experience in journals. Fieldwork must be completed at least two months before graduation. (variable credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Prerequisites: major in Creative Arts and New Media and consent of the Creative Arts and New Media faculty and Academic Standards Committee
MC 399 Directed Study  
(variable credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course)  
*Prerequisite:* consent of the Creative Arts and New Media faculty.

MC—D335 Digital Photography 1: Unlocking the Power of Light  
Digital photography helps strengthen the connection between the photographer’s vision and the resulting images by providing nearly instant feedback and furnishing ever-subtler tools for self-expression. In this course, students learn foundational principles that underlie commercial digital photography, while using principles of consciousness to consolidate both the experience and understanding of digital photography. *Topics include:* mastering the digital camera, managing a digital workflow, color management in theory and practice, visualizing light and how to control it in the digital darkroom. (1–4 credits) *Prerequisite:* basic computer skills

MC—D365 Next Generation Web Design: Integrating Graphics, Animation, Video, and Audio to Create Illuminating User Experiences  
Students learn to use powerful tools for Web design, Web animation and video to build richly interactive Web sites that inspire the viewer. *Topics include:* conceptualizing new user experiences; creating innovative Web sites in HTML5 with Web site builders; choosing, building and using WordPress templates. (4 credits) *Prerequisite:* basic computer skills

MC—D368 Graphic Design for the Web: Fast Path to Instantaneous Global Communication  
Students learn a process that allows graphic designers to create Web sites without writing HTML code. This course focuses on understanding the graphic design process of converting Photoshop files into working Web pages. Students learn how to create graphic design web templates and easily turn them into highly functional Web pages using Adobe Muse software. *Topics include:* layering imagery; the ingredients of interaction; creating elegant, highly interactive Web site content without writing code; video and audio for the Web; defining features; budgets, pricing and the Web design marketplace; and communicating with clients and programmers. (4 credits) *Prerequisite:* basic computer skills

MC—F282 Five Scenes: Understanding and Applying the Aesthetics of Motion Pictures and the Technologies of Digital Video to Transform the World with a Vision of Unbounded Possibilities  
Students learn the basic skills of video production by participating in the production of a variety of different scenes and subjects. They will learn to handle and care for production
apparatus including lights, cameras, and sound equipment, and will learn the different roles to be played in the process of shooting a video, including director, director of photography, gaffer, grip, electrician, art department, assistant directors, and production assistants. (4 credits) Prerequisite: basic computer skills

**MC—F284 Video Editing: Utilizing Digital Tools for Capturing, Cutting, Sequencing, and Compositing Sound and Image to Create Artistic Wholeness**

Video editing requires the student to be able to synthesize all the different elements of their video into a greater whole. The emphasis of this course is on exploring the craft of editing and the techniques used to maximize the emotional impact of the story. Students will study examples of work by accomplished editors and discover ways to build momentum and render the cut ‘invisible’. **Topics include:** the language of the cut, the 180-degree system, and Murch’s Rule of Six. Students will become expert in utilizing non-linear editing tools through daily editing assignments. Students will learn keyboard shortcuts and advanced trimming tools, transitions, filters, titles, keyframes, compositing tools, audio mixing, color correction, capturing and outputting. Towards the end of the course some production time will be allotted so that students may edit a final piece of their own. Students may also bring in footage that was shot previously for their final project. (4 credits) Prerequisite: MC—F282

**MC—F288 Visual Storytelling: Introduction to Cinematography**

Cinematography is the art of telling stories through moving images. By balancing camera angles, movements, and light, cinematographers translate the director’s vision into powerful images. In this course, students will learn the language of cinematography in its technical and aesthetic forms. Fundamentals of camera position and light set ups will be explored. Students will practice camera movements via supported (tripod, jib, dolly, etc.) and handheld techniques, and will learn about the power of the frame in conveying story. Students will understand that clarity of mind, broad vision, and attention to detail are the cinematographer’s greatest assets, and that these develop with the growth of consciousness. (4 credits) Prerequisites: MC—F282 and MC—F284

**MC—F308 Communicating through Media: Making Ideas Visible**

This course prepares students to communicate a personal message in the audiovisual medium. The message can be an idea, a product or service endorsement, a personal reflection, or any other message. In this course students will learn to craft a clear message, make it visually appealing, and publish it online. Topics include: structuring a message, scene composition, lighting, basic sound recording, video editing, YouTube publishing, and cellphone (or a simple DSLR photo/video camera) photography skills. (4 credits)
MC—F309 3D Modeling and Video Game Design: Creativity in Motion
Students in this class will explore the art and technology of 3D modeling in the context of developing video games. They will use the free 3D content creation suite Blender and the game engine Unreal to build and render 3D assets and animations for interactive 3D games. Topics include: story-telling in the game medium, mesh modeling, landscape generation, materials and textures, keyframe animation, lights and shadows, cloth simulations, scripting in Blueprint, level design, and playtesting. (4 credits) Prerequisite: basic computer skills

MC—F310 Film Equipment Mastery
This course is designed to teach the technical aspects of on set filmmaking. Students will acquire the technical knowledge and skills of using on set filmmaking equipment to improve understanding, quality and efficiency on any set, from small video productions to big budget films. Throughout the course students will exposed to various assignments that highlight the fundamentals of being a specialized technician on set in Camera Department, Sound Department, Lighting Department, and the Digital Imaging Technician Department. (4 credits) Prerequisite: MC—F282

MC—F313 The Real Story: Documentary Film
Documentary films have their basis in the real world. They are made for a variety of purposes but fundamentally they explore the entire range of human experience. This course will examine the role of documentary filmmaking and all the various forms of the documentary. It will be a fascinating journey that will take students all over the globe and throughout history dealing with a wide range of issues both past and present. In this course, students will also examine how to make a documentary. It is therefore very practical in its focus. The first requirement to any documentary is knowing what the story is and what kind of story makes a good documentary. Having chosen a story, there is then the realization of it. Students will learn what is required to make the all-important pitch. They will then choose some stories and make short documentaries about them. (4 credits) Prerequisites: MC—W300, MC—F282, MC—F284

In this course students will dive deep into the auditory world of sound design for visual media. We will analyze, explore and break down the fundamental categories of Dialog, Sound Effects, & Music/Score that when accompanying visual media will bring a sense of wholeness to the creative project. This class will offer each student the opportunity to work in a controlled live recording environment where they will learn how to perform and record ADR, Foley, Walla, and music/score. Throughout the course students will gain detailed knowledge of dialog editing, cueing, and sound effects, giving each student
a solid foundation to continue their growth in sound design for visual media. (4 credits)
*Prerequisite:* basic computer skills

**MC—M233 Digital Music Production: Waves of Creativity**
With modern music recording and production being more accessible than ever, anyone with a computer can share the melodies in their head with the world. Be it a symphony or the next number one hit single, students will learn to use music creation software to make their dreams come true. Minor knowledge of music preferred. Students will learn basic compositional techniques as well as production and sound engineering methods to bring as much clarity to their vision as possible. (4 credits) *Prerequisite:* basic computer skills.

**MC—W204 Science Fiction and Fantasy: Exploring the Full Potential of Life**
Science fiction and fantasy writers use their creative intelligence and imagination to explore the full potential of life. The name speculative fiction is given to these popular genres because writers imagine different kinds of human society. Speculative fiction writers imagine what the future will be like, what additional abilities and attributes humans will develop, and how we might use science and technology to redesign life and shape new worlds in other solar systems. They also explore deep themes about what it is to be human, along with the benefits and dangers of technology and powers that are extraordinary. Speculative fiction stories can influence cultural trends, inspire political movements and contribute to debates about a wide range of ethical and social issues. An essential aspect of science fiction and fantasy writing is world building and we will dedicate time to looking at software that helps writers with this process. Every world a speculative fiction writer creates, must also have compelling characters and a good story. Students will spend time working on story structure and techniques to develop a character. In this course we focus on the writers of speculative fiction, examine some influential works, and undertake a course project writing a science fiction or fantasy short story or section of a novel. (4 credits)

**MC—W245 Writing for the Screen: From Idea to Image**
Students will be introduced to the process of preparing a story to be told in a visual medium. Students will learn the basics of script and screenplay writing by participating in basic skills exercises, including dialogue emulation and performance, script-to-screen analysis, and scene adaptation. To produce effective screenplays, students will develop their own toolkit for overcoming challenges in idea conception, story structure, and dialogue. Course work will result in scripts suitable for production in later courses. (4 credits)
MC—W250 CCTS The Power of the Word: Information and Inspiration for Action and Achievement
In this course, students will be introduced to persuasive communication. Methods of evaluating and responding to arguments will be covered. Students will learn the fundamentals of effective speech, writing and presentation, and examine those fundamentals in the contexts of storytelling, activism, advertising, and business. (4 credits)

MC—W251 The Power of Social Media Marketing: Creating a Larger Community by Reaching More People
In this course, students will learn the underlying fundamentals of online marketing inside the most popular social media platforms; Facebook, Instagram, Twitter, LinkedIn, and YouTube. Students will learn key marketing and branding concepts, and gain hands-on experience with visual marketing and modern content marketing. Topics of exploration include the light and dark side of social media; the visual marketing creation process on Instagram and YouTube; ecommerce tools for each social site for students with products and service to promote; and learning how to build a successful social media marketing strategy plan. Students will complete the course with a marketing plan for any current or future businesses they develop. (4 credits) Prerequisite: basic computer skills.

MC—W252 The Power of Imagination
This is a writing course that looks at the power of the human imagination and its role in fiction writing. The first part of the course will examine the function of imagination in human evolution and what parts of our physiology are involved with imagination. We will then look at some of the most imaginative writing that has been produced and how imagination plays a crucial role in the ability of the writer to create compelling and enriching narrative prose. We will discover that imagination is at the very core of the creative process and therefore developing our imaginative abilities will greatly enhance and develop the power of our writing. Throughout the course students will engage in exercises to express their imagination and develop great imaginative power. Students on the course will also undertake a writing project for the course, and there will be writing days to work on this project. (4 credits)

MC—W300 The Art of Story: Unifying and Unfolding the Full Range of Human Experience
This course examines the essential role of narrative in the creation of all forms of media. From the very beginnings of human records, whether it be mythology, scripture, literature, or the earliest cave paintings, the creators of these works have always told their audience a story or imparted a message by the use of narrative. In order to work in any creative medium, understanding the various ways in which narrative is used is a great
advantage. This course will examine the range of narrative forms and narrative devices that have been used since the dawn of time right up until the modern day. We will discover that although the forms and types of media used might have changed as technology has advanced, in fact, most of the essential forms of narrative used in creative works have been with us for ages. Understanding why will reveal how narrative reflects both the universal and unique aspects of the experience of human life. As part of the course students will be required to undertake projects that aid the development of their own narrative skills. This is a writing intensive course. (4 credits)
INTRODUCTION

With the rapid advances in science and technology during the last few decades, computing systems have risen to become the key technology that supports and expands almost every area of life, from education and research to commerce and entertainment.
With the recent growth of networking systems and the global Internet system connecting millions of people and almost every educational, research, and business institution in the world, computing has become the most powerful and pervasive aspect of modern technology and a vital element of success in almost every area of life.

Today we live in an information-based society. Fundamental knowledge of how computers and computing systems work is a vital part of modern life. The universal role of computing and the great power that it brings to all areas of life is based on the ability of computing systems to represent and reason about the knowledge that is at the basis of any area of application.

Computer science is the study of these structures and dynamics of information, and their expression into progress and machines. It creates a new and exciting area that merges aspects of mathematics and electronics to form a new discipline of software and computing systems. This allows one to describe abstract concepts or knowledge from any area of interest, and then create powerful systems that produce concrete results — the flight of a satellite, a computer graphics system for movies, scientific computation, management information systems, or desktop word processing.

With such broad areas of application, a computer scientist must have a strong background in both the foundations of knowledge on which these systems are organized, and the principles which are used to create and apply computing to all of these diverse areas of life. Clearly, a computing professional enjoys the ability to work in one of the most exciting and leading areas of technology today and one of the most important areas for the future.

Our computer science programs prepare graduates for success in this field by providing comprehensive knowledge of the discipline and the ability to think clearly and precisely.

**Programs Offered**

- BS in Computer Science
- Minor in Computer Science
- MS in Computer Science offered in two formats:
  1) a one-year program full time on campus for students with a bachelor’s degree in computer science or equivalent course work and work experience.
  2) a two-year cooperative program for students with a bachelor’s degree in computer science or equivalent course work and work experience. Students in this program take one year of full-time course work at the University (or through Distance Education) and one year of directed study through a cooperative job placement.
• MS in Computer Science with a specialization in Data Science, IT Management, or Web Architecture
• MS in Computer Science Data Science Track. Students in the MS in Computer Science listed above may add the Data Science track to their degree by completing four core courses and three supporting courses as part of their course work.
• Master’s in Software Development, a one-year program for students without an undergraduate degree in computer science.

DEPARTMENTAL REQUIREMENTS

Entrance Requirements for the Major or Minor in Computer Science

Before beginning the computer science and mathematics courses required for the major or minor, students must successfully complete the Science and Technology of Consciousness course (STC 108) and Functions and Graphs 2 (MATH 162). It is also strongly recommended that students complete College Composition 2 (WTG 192) beforehand. Students are also strongly advised (but not required) to complete CS 105 Problem Solving to satisfy MUM’s CCTS requirement before taking CS 201.

On arrival at MUM, all students (including transfer students) who intend to enter the major or minor in computer science take the Mathematics Placement Assessment and, if they place lower than Math 162, must complete all necessary mathematics courses up through Math 162 before taking computer science courses at the level of CS 201 or above and before taking mathematics courses at the level of discrete mathematics and calculus. Note: Courses up through Math 162 may add one or two semesters to the program for students, depending on their placement.

A maximum of half the credits (32 credits) required for the major may be replaced with transfer-in credit. Students may waive mathematics, computer science, and management courses equivalent to courses in the major or minor at the 200 level or above that were completed very recently with a grade of B or above at another qualified university. These courses would replace courses required for the major or minor. Decisions about what courses are accepted and what constitutes “recently” (usually a maximum of three years ago) are made on a case-by-case basis by the department. Students who have taken such courses elsewhere as part of a completed bachelor's degree will not be given transfer credit but will have those courses waived from the major requirements.

Students complete CS201, CS203, and CS221 before being officially accepted into the major in computer science. Acceptance depends on attaining an overall GPA of at least 3.0 in these three courses. If necessary, each course may be repeated at most once to bring the GPA up to this level.
Students aiming to take the MS in computer science after completing the BS in computer science at MUM need to consult their academic advisor as to whether this will be possible. It is also possible to complete instead the computer science track or the data science track (if offered) of the BS in mathematics and then proceed to the MS in computer science.

**Graduation Requirements for the Bachelor of Science Degree in Computer Science**

To graduate with a BS in Computer Science, students must successfully complete all requirements for the bachelor’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) As part of these requirements, students must complete 64–68 credits of course work as listed below.

Students who have been accepted into the major must maintain a cumulative GPA for their computer science courses of 2.8 or above. If, in any semester (except the last), this GPA drops below 2.8, students have until the end of their following two computer science courses to bring it back up to 2.8. If they do not succeed in bringing it back up to 2.8 by then, they must leave the major. In order to be awarded the BS in Computer Science degree, a student’s overall GPA for all MUM computer science courses must be 2.5 or above.

56 credits of required courses:
- CS 201 Procedural Programming
- CS 203 Object Oriented Programming
- CS 221 Data Structures
- MATH 272 Discrete Mathematics
- MATH 281 Calculus 1
- MATH 282 Calculus 2
- MATH 286 Linear Algebra 1
- CS 321 Introduction to Algorithms
- CS 363 Computer Organization and Architecture
- CS 390 Fundamental Programming Practices
- CS 401 Modern Programming Practices
- CS 422 Database Systems
- CS 425 Software Engineering
- CS 472 Web Application Programming

*plus 4 credits of coursework in business management (courses with prefix MGT)*

*plus 4 additional credits of computer science courses at the 300 level or above*
Students wishing to include courses at the 500 level must have achieved outstanding performance in all their CS courses and have permission of their academic advisor and the instructor.

*plus a Senior Project consisting of either:*
- CS 496 Software Development Senior Project, when it is offered

*or*
- Students who are in good standing regarding the GPA requirements of the major, may opt to develop the project in the required course CS 425 Software Engineering into a senior project without the need to take CS 496 Software Development Senior Project

*or*
- If CS 496 is not offered, students may work one-on-one with a faculty member in the department on a senior project and receive credit for CS 496. This option is only possible if a faculty member is available.

**Graduation Requirements for the Minor in Computer Science**

To graduate with a minor in computer science, students must complete a total of 20 credits of course work, as follows:

*16 credits of required courses:*
- CS 201 Procedural Programming
- CS 203 Object Oriented Programming
- CS 221 Data Structures
- MATH 272 Discrete Mathematics

*plus one 4-credit elective course in Computer Science at the level of 300 or above*

**Entrance Requirements for the Master of Science Degree in Computer Science**

To be admitted to the MS in Computer Science program, students must hold a bachelor’s degree with an undergraduate grade point average of at least 3.0 (“B”). In addition, students must have a background in computer science corresponding to the following courses:

- CS 201 Procedural Programming
- CS 203 Object Oriented Programming
- CS 221 Data Structures
- CS 321 Introduction to Algorithms
- CS 363 Computer Organization and Architecture
- CS 310 Systems Programming
- CS 350 Programming Languages
• MATH 272 (CS 272) Discrete Mathematics

Students may also be required to have a GPA in just the above computer science courses or their equivalents of 3.3 (B+) or above.

Three additional mathematics courses are also required for admission to the MS in Computer Science program:

• MATH 281 Calculus 1
• MATH 282 Calculus 2
• MATH 286 Linear Algebra I

If only one of the courses, MATH 272, MATH 281, MATH 282, MATH 286, is missing, a student may be accepted to the MS in Computer Science and allowed to take it as an extra course during the MS in Computer Science. If a student satisfies ALL other requirements for entry into the MS CS except for one mathematics course, then that student MUST take that course as an extra course during the MS CS.

This required background in mathematics and computer science could be acquired through course work at the University or elsewhere, or through equivalent professional work experience.

Undergraduate prerequisite course-work grades will not be included in the GPA for the Master of Science program.

Transfer credit for graduate courses completed at other qualified universities in which the degree was not completed are limited to a maximum of two courses (8 credits). Additional graduate study can be applied to waive specific course requirements, but not to reduce the number of credits required to graduate.

Up to two CS courses plus CS401, taken at MUM while enrolled in the BS CS or BS MATH and passed with grade at least B, that were not applied to a completed major or minor nor applied to the 128 credits required for a completed BS, may be applied to waive specific course requirements of the MS CS and thus reduce the number of courses required for the MS CS. More such courses may be applied to waive specific course requirements of the MS CS, but not to reduce the number of courses required for the MS CS.

Students with a previous bachelor’s degree who do not currently qualify to enter the MS CS may enroll in the BS CS in order to gain proficiency to apply for the MS CS. The
following CS courses must be completed with a GPA of at least 3.3 (B+) and the following mathematics courses must be passed to qualify to re-apply for the MS CS.

- CS 201 Procedural Programming
- CS 203 Object-Oriented Programming
- CS 221 Data Structures
- CS 390 Fundamental Programming Practices
- MATH 281 Calculus 1
- MATH 282 Calculus 2
- MATH 272/CS 272 Discrete Mathematics

Graduation Requirements for the Master of Science Degree in Computer Science

To graduate with an MS in computer science, students must successfully complete all requirements for the master’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) Program requirements are:

- 40 credits of computer science courses at the 400 level or above (includes 4 credits of CS 401 MPP)
- At least one systems or analysis course (DBMS, Security, Computer Networks, Operating Systems, Parallel Programming, Compilers, Software Testing, Big Data Analytics, Systems Analysis, Project Management)
- At least 20 credits applied to the MS degree must be at the 500-level
- No more than one course can have a grade of C, C+, or C-
- The cumulative grade point average for Computer Science courses must be at least “B” (GPA of 3.0) or higher
- A grade of B- is allowed in Algorithms or Advanced Programming Languages as long as all other points are met.
- If the master’s thesis option is selected by the student and approved by the faculty, then Master’s Thesis Research (CS 588) with an oral defense may be used to satisfy up to 8 credits
- If, upon admission to the program, the student lacks one of the required mathematics courses, it can be taken to satisfy 4 of the 12 credits of additional computer science course work — if approved by the Department

Note: The Forest Academy requirement for this program is FOR 500 in the first semester plus one 2-week Forest Academy course for each semester enrolled on campus. In some cases, FOR 500 is broken into two 2-week parts, or replaced by two 2-week STC courses, the first part taken at the beginning of the first semester, and the second part taken at the beginning of the second semester.
Entrance Requirements for the Master of Science Degree in Computer Science, Cooperative Program

Entrance requirements for this program are the same as for the MS in Computer Science program listed above.

Graduation Requirements for the Master of Science Degree in Computer Science, Cooperative Program

To graduate with an MS in Computer Science, Cooperative Program, students must successfully complete all requirements for the master’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) Program requirements are the same as for the MS in Computer Science program listed above, with the following modifications:

• 36 credits of course work corresponding to the MS CS program listed above (includes 4 credits of CS 401 MPP)
• 8 credits of Practicum (CS 574–CS 578)
  plus at least 16 credits (4 courses) of other 500-level CS courses

Note: The Forest Academy requirement for this program is FOR 500 in the first semester plus one 2-week Forest Academy course for each semester enrolled on campus. In some cases, FOR 500 is broken into two 2-week parts, the first part taken at the beginning of the first semester, and the second part taken at the beginning of the second semester.

Entrance Requirements for the Master of Science Degree in Computer Science, Data Science Track

To be admitted to the MS in Computer Science Data Science Track, students must be admitted to MS in Computer Science program. Further, students should have a GRE quantitative score in the 70th percentile (158) or above. Students without a GRE will be considered if their grades and math background are sufficiently strong. Applicants must also have sufficient mathematics courses on their transcript, including at a minimum, calculus and probability, and ideally also linear algebra and statistics.

Graduation Requirements for the Master of Science degree in Computer Science, Data Science Track

To graduate with an MS in Computer Science Data Science Track, students must successfully complete all requirements for MS in Computer Science listed above. Further, their course work must include the following four core courses

• CS 201 488 Big Data Analytics
• CS 522 Big Data
• CS 523 Big Data Technology  
• CS 582 Machine Learning

and three supporting courses that must either be taken or waived.

• CS 422 Database Management Systems  
• CS 435 Algorithms  
• CS 472 Web Application Programming

**Entrance Requirements for the MS in Computer Science Specializations**

To qualify for the specialization option of the Master’s in Computer Science program, students must have completed all academic requirements to graduate with a Master’s in Computer Science degree, including having the overall and computer science courses GPA’s at 3.0 or above. The student must have also completed these requirements in the original program time of 32 months.

**Graduation Requirements for the MS in Computer Science Specializations**

The program requires 4 courses (16 credits) to be taken from one specialization (that were not previously taken as part of the Master’s in Computer Science program) in order to receive the specialization, as well as 8 credits of Curricular Practical Training (CPT). Students must also have a cumulative GPA of 3.0 or above in these 4 courses, and an overall GPA in the computer science courses of 3.0 to obtain their Master’s in Computer Science degree with the relevant specialization.

**Specialization Options and Courses:**

**• Data Science Specialization:**

- CS 488 Big Data Analytics  
- CS 522 Big Data  
- CS 523 Big Data Technology  
- CS 582 Machine Learning  
- MGT 5450 Database Management Systems

**• IT Managers Specialization:**

- CS 423 Systems Analysis and Design  
- MGT 5821 Leadership and Teamwork  
- MGT 5302 SAP – Enterprise Business Processes  
- MGT 482 Management and Organization

**• Web Architecture Specialization:**

- CS 472 Web Application Programming  
- CS 544 Enterprise Architecture  
- CS 590 Software Architecture
Entrance Requirements for the Master’s in Software Development

To be admitted to the Master’s in Software Development program, students must fulfill the following points:

- Be a US Citizen or Permanent Resident
- Submit transcripts for Bachelor’s / Undergraduate Degree (in any subject)
- Have a GPA of 3.0 or higher (or equivalent in work experience or demonstrated aptitude)
- Pass the Problem-Solving Aptitude Challenge
- Submit résumé
- Have a letter of recommendation sent by a recent employer or professor

A grade of B or higher is required in the following preparatory courses:

- CS 301 Introduction to Programming in JavaScript
- CS 303 Object-Oriented Programming
- CS 311 Data Structures and Discrete Math

Graduation Requirements for the Master’s in Software Development

To graduate with a Master’s in Software Development, students must successfully complete all requirements for the master’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) In addition, students must fulfill the following points:

- CS 421 Introduction to Algorithms (must be completed with a grade of "B" or better)
- Final Thesis Project
- Half of completed courses should be at 500 level.
- Maintain GPA of 3.0 or more each semester.

Plus, 44 credits of MSD coursework, as follows:

- CS 301 Intro to Programming with JavaScript (4 credits)
- CS 303 Object-Oriented Programming in JavaScript (4 credits)
- CS 311 Data Structures and Discrete Math (4 credits)
- CS 418 SQL and NoSQL Database Systems (4 credits)
- CS 421 Introduction to Algorithms (4 credits)
- CS 477 Server Side Programming (4 credits)
- CS 568 Web Application Development 1 (4 credits)
- CS 569 Web Application Development 2 (4 credits)
- CS 571 Mobile Application Development (4 credits)
- CS 572 Software Engineering Seminar (2 credits)
• CS 579 Final Project (4 credits)
• MGT 5341 Career Strategies in Information Technology (2 credits)

Plus, these degree requirements (Please refer to “Degree Requirements” in “Academic Policies”):
• STC 508A The Science and Technology of Consciousness, part A (2 credits)
• STC 508B The Science and Technology of Consciousness, part B (2 credits)

COURSES

Note: In order to be admitted to any course at the level of CS 400 or above, all prerequisite courses must be passed with a grade of B or above, except where mentioned below.

Undergraduate students are not permitted to enroll in courses at the level of CS 500 or above, unless they have shown outstanding performance in all their CS courses and have permission of their academic advisor and the instructor, in addition to any other stated requirements.

Graduate students need permission of the instructor to enroll in courses at the 500 level or above, in addition to any other stated requirements.

Undergraduate Courses

CS 105 CCTS Problem Solving with Computational Thinking: Using the Field of all Possibilities as the Source for All Solutions
This course focuses on teaching students the higher order (critical) thinking skills needed in computer science (analysis, evaluation, logic and reasoning). The course starts by explaining how computers work, and then focuses on having students read and write pseudo code as an easy way to introduce programming concepts such as variable, selection, repetition, and arrays without having to worry too much about syntax. During the course we will also read and discuss articles on current issues in the study of computer science. We will finish with a programming project in a simple programming language. (4 credits) Prerequisite: STC 108, taken during students’ first semester, or consent of the department faculty

CS 201 Procedural Programming: The Language of Computing — Expressing the Intelligence that Guides Computation
This course introduces the fundamental concepts related to computer programming, preparing students with the skills to write basic computer programs, and the knowledge to understand basic programs written by others. Topics include: built-in data types, flow
control using conditionals and loops, arrays, console I/O, recursion, using libraries, and using classes to create their own data types. (4 credits) Prerequisite: MATH 162

CS 203 Object Oriented Programming: Greater Knowledge and Expression in Programming Languages
This course covers programming in Java, specifically focusing on object-oriented concepts and creating GUI applications. Topics include: classes and objects, primitives and references, inheritance and polymorphism, interfaces and abstract classes, exception handling, GUI programming in Swing, and serialization and file I/O. (4 credits) Prerequisites: Math 162 and CS 201

CS 221 Data Structures: Fundamental Structures of Information at the Basis of All Computation
Students use computer programming laboratory problems to apply the principles of data structure organization in a practical environment and develop advanced programming skills. The organizing power of knowledge is found to be the source of order in computer data structures. Topics include: abstract data types, internal representation of data, stacks, queues, linked lists, hash maps, binary trees, heaps, red-black trees, 3-4 trees and B trees. (4 credits) Prerequisites: MATH 162 and CS 203

CS 272 Discrete Structures: Models and Mathematics of the Structures of Natural Law at the Basis of Computation
Discrete mathematics is becoming increasingly important because of its wide applicability in computer science, as well as in management and the other sciences. Two key processes in discrete mathematics studied in this course are algorithmic problem solving and recursion. Topics include: logic and sets, graph theory, and difference equations. (Same as MATH 272) (4 credits) Prerequisite: MATH 162

CS 301 Intro to Programming with JavaScript
In this course, students will learn the hidden potential of JavaScript functional language, master Document Object Model (DOM) manipulation, learn cross-browser strategies, and be introduced to ECMAScript6 (ES6) features. Students will create and deploy a dynamic website using the following tools and concepts. Topics include: Intro to Git, Basic HTML5, CSS box model and layout, CSS Grid layouts, CSS Flex layouts, CSS frameworks (Bootstrap), Core concepts of JavaScript (JS), Data types, Variables, Conditional statements, Expressions and operators, Traditional looping, Pure functions, Higher-order functions, Scoping, Collections, Simple recursion, Currying, For loops, and Event handling. (4 credits)
CS 303 Object-Oriented Programming in JavaScript
In this course, students will gain proficiency in using JavaScript as a functional programming language. Students will learn object-oriented programming (OOP) principles and the particular flavor of JavaScript’s dynamic object model. Topics include: Imperative Javascript vs Object-Oriented Javascript vs Functional Style; The object model (inheritance, prototype based OOP, creating hierarchies); Closures, arrow functions; Classes; ES6 Module; Try / catch, error; Working with objects (creating objects, methods, getters / setters); Iterators, iterables; Promises; Observables; Map; Reduce; and Filter. (4 credits) Prerequisite: CS 301

CS 310 Systems Programming: Connecting Hardware and Software — The Most Fundamental Level of Software in the Operating System
Students learn the systems programs that link the outer activity of high-level programming languages with the internal activity of the computer hardware. Knowledge of this deeper level of systems programs gives a greater range of possibilities to the programmer. Students learn system software such as compilers, linkers, loaders, and debuggers, and the structure and functions of an operating system including device management, process management, system calls, and memory management. (4 credits) Prerequisites: CS 221 and CS 272 / MATH 272

CS 311 Data Structures and Discrete Math
In this course, students will become proficient in designing and implementing basic data structures used in modern computing applications and learn how to apply discrete math concepts commonly used in software applications. Topics include: Arrays and lists; Stacks, queues, linked lists; Dictionaries, hashing, sets; Binary (search) Trees, Red Black Trees, B-Trees; Boolean logic; Set theory; Functions and relations; and Combinatorics. (4 credits) Prerequisite: CS 303

CS 321 Introduction to Algorithms: Focusing on Cause and Effect
Students are introduced to the study algorithms. Topics include: searching and sorting algorithms, computing time of programs and representations and algorithms for graphs. This course also includes a significant research paper around the efficiencies and running times of different algorithms (4 credits) Prerequisite: CS 221 and WTG 192

CS 350 Programming Languages: The Abstractions at the Basis of Programming Languages — Gaining Mastery Over All Programming Languages
This course involves substantial programming exercises that give students practical experience with several different programming language paradigms. Topics include: syntax and semantics of programming languages; data types and structures; control flow including blocks, subroutines, and recursion; implementation methods for semantic
features; and comparison of several programming languages. (4 credits) **Prerequisite:** CS 221

**CS 363 Computer Organization and Architecture: The Physiology at the Basis of All Computers — The Logical and Physical Structures of Digital Computation**

This course presents the internal structure of a computer, an introduction to assembly language, and the design of digital logic circuits and their use in structuring the various functional components of a computer, such as the memory and central processing unit. **Topics include:** machine organization, logic gates, circuits, machine language, assembly language, memory, I/O systems, and how these all combine to create typical and atypical architectures. (4 credits) **Prerequisites:** CS 201 and CS 272 / MATH 272

**CS 390 Fundamental Programming Practices: Modern Programming Methods and Systems — Capture the Fundamental Principles of Knowledge for Greater Success in All Areas**

This course provides a focused program for enhancing programming and analytical skills in five areas: problem solving, data structures, object-oriented programming, the Java programming language, and the use of recursion in Java programs. These topics are of particular importance as a prerequisite for the courses in the graduate program in Computer Science. **Topics include:** elements of Java programming, object-oriented design and implementation, data structures (including lists, stacks, queues, binary search trees, hash tables, and sets), the exception hierarchy, file i/o and streams, and JDBC. (4 credits) **Prerequisite:** For undergraduate students: CS 221; for graduate students: consent of the department faculty

**CS 398 Computer Programming Internship: Knowledge and Experience for Maximum Growth**

This course offers practical, professional experience in computer programming. Students apply classroom knowledge to an industrial or University project. During the internship, students submit detailed reports of their computer programming activities. (2 credits) **Prerequisites:** consent of the Department faculty and the Academic Standards Committee

**Dual Graduate/Undergraduate Courses**


This course presents the fundamental principles of object-oriented programming. Students will learn how to write reusable and better-maintained software, and integrate this knowledge with laboratory assignments and projects. **Topics include:** fundamental principles and models of object-oriented programming, UML class diagrams and design principles that promote reusability and maintainability of software. (4 credits)
Prerequisite: For undergraduate students: CS 390; for graduate students: consent of the department faculty

CS 418 SQL and NoSQL Database Systems
This course covers the fundamental concepts of relational databases including relational algebra and normalization. It also covers NoSQL databases and how to work with MongoDB API and the aggregation framework. Students learn also how to store data in the browser using the Web storage API, IndexedDB, and cookies. Topics include: SQL Language, Working with MySQL/PostgreSQL, 3rd form normalization, Stored procedures, NoSQL DB Schemaless design, Writing MongoDB Queries in CLI, NoSQL Aggregation Framework, The Web Storage API, Web SQL Database, Cookies, and IndexedDB. (4 credits)

CS 419 Content Management Systems
Students will learn how to develop websites with popular content management systems such as WordPress, which starts with learning the installation process and the theory of Content Management Systems. They then learn the major building blocks of the WordPress Admin Panel, Posts, pages and Forums, and how to use Plugin Management. The course finishes with WP Themes, where students will create their own themes. Topics include: WP posts and pages, and WP themes. (2 credits) Prerequisite: CS 301

CS 421 Introduction to Algorithms
In this course, students will learn core computer science concepts for writing efficient and effective algorithms. Using algorithms in programming allows one to improve the efficiency, performance, speed, and scalability of applications. Students will learn what algorithms are, why they are important, and how to code them in JavaScript. Students will also learn other important programming concepts such as functional programming, time complexity, recursion, and other important concepts. This course is useful for anyone interviewing for engineering jobs at both large and small companies. Interviewers will often ask candidates to write algorithms out in code, and this course will prepare students to do that and help them to excel in technical interviews. Topics include: Graph algorithms, Computational complexity (worst, best, average), Runtime complexity, Binary Trees, Sort and search algorithms, and Classic algorithms (Palindromes, Anagrams, Matrix Spiral, Fibonacci). (4 credits) Prerequisite: CS 311

CS 422 Database Systems: Capturing the Organizing Power of Information
Database systems organize and retrieve information, allowing the user to access the desired information easily and efficiently. Topics include: relational data model; SQL; ER modeling; relational algebra; data normalization; transactions; objects in the database; data security and integrity; data warehousing, OLAP, and data mining; distributed
databases; and study of a specific commercial database system. (4 credits) Prerequisite: CS 401 or consent of the Department faculty

**CS 423 Systems Analysis and Design**
One can think of the systems approach as an organized way of dealing with a problem. The software systems development life cycle (SDLC) has three major phases. It begins with preliminary and feasibility studies to make the decision to develop a system to solve a particular problem in a cost-effective and timely way. This is followed by a detailed system study, in which every aspect of the current system is analyzed and a new system is designed to meet the needs of the organization. Finally, the system design is brought to life through software engineering techniques including coding, testing, implementation and maintenance of the system. This focuses on the middle phase. A system will be studied in detail to gather requirements and its process elements analyzed for suitability and relevance to meet the needs of the system’s users. This is followed by an iterative and creative design process, using tools such as flowcharts, data flow diagrams (DFD), data dictionary, decision tables and decision trees, to provide an effective and detailed design of the system. (2–4 credits) Prerequisite: CS 401

**CS 425 Software Engineering: Knowledge Is the Basis of Action — Principles and Processes for Developing Large-Scale Software Systems**
This course introduces the student to best practices in software development through a software development methodology. Students will learn how to bring together their skills in object-oriented analysis and design, in the use of UML diagrams for modeling software solutions, to produce robust, easily maintainable software. A software development methodology describes when and how object-oriented concepts and UML diagrams should be used to accomplish the aim of building quality software. The course centers on a small project in which the principles discussed in the lecture format can be illustrated and applied. By the end of the course, the student will have a running application, built in accord with the high standards of a contemporary development methodology. (4 credits) Prerequisite: CS 401 or consent of the Department faculty

**CS 435 Algorithms: Discovering the Hidden Dynamics of Natural Law**
This course presents methods for analyzing the efficiency of algorithms (including worst-case and average-case analysis) and introduces a variety of known, highly efficient algorithms. Analysis, design, and implementation of algorithms are given equal emphasis. Topics include: searching and sorting, efficiency of operations on data structures (including lists, hash tables, balanced binary search trees, priority queues), graph algorithms, combinatorial algorithms, recurrence relations, NP-complete problems, and special topics as time allows. (In the past, special topics have included computational
geometry, algorithms for cryptosystems, and approximation algorithms). (4 credits)  
Prerequisites: CS 401 and MATH 272, or consent of the Department faculty

CS 440 Compiler Construction: Connecting Name and Form — The Source of All Programming Languages in Grammar and Semantics
Students learn the successive stages and detailed mechanics by which high-level programming languages are translated into machine language by a compiler. Topics include: language and grammar specification, compiler structure, compiler generation tools, lexical analysis, parsing, syntax analysis, semantic analysis, intermediate language, code generation and optimization, storage management and linkages, user interface, and a large programming project implementing part of a compiler. (4 credits) Prerequisite: CS 401 or consent of the Department faculty

CS 450 Computer Networks: Connecting the Parts and Whole — Frictionless Flow of Information
The goal of this course is to learn the concepts, architecture principles, and terminology of computer networks by exploring how networks work and developing network applications. This course follows the top-down approach to understanding networks by using the Internet’s architecture and protocols as the primary example of an implementation of network principles. We start at the application layer and continue through the transport layer, network layer, link layer, and the physical layer of computer networks. Students develop several network applications and complete several labs designed to trace and understand the predominant network protocols in use in the Internet. (4 credits) Prerequisite: CS 401 or consent of the Department faculty

CS 456 Software Testing
Software testing is the process of analyzing software for problems and evaluating the features. In this seminar students will learn the art and science of software testing. The seminar will focus on Functional Testing, Structural Testing, Unit Testing, Integration Testing, System Testing, and GUI Testing. Students will do tools and frameworks evaluation and a literature survey of the state of the art in software testing. (2–4 credits) Prerequisite: CS 401 or permission of the Department faculty

CS 465 Operating Systems: The Most Fundamental Level of Software — Organizing Hardware Resources into Coherent Virtual Systems
An operating system controls the central resources of the computer system and allocates them to individual users. Topics include: sequential and concurrent processes, mutual exclusion, resource sharing, process cooperation, deadlock, resource allocation, processor scheduling, memory management, segmentation and paging algorithms, timesharing systems, scheduling algorithms, and resource protection. (4 credits) Prerequisite: CS 401 or consent of the Department faculty
CS 466 Computer Security
This course goes deeply into the three aspects of computer security: confidentiality, integrity, and availability. Several models for confidential and integrity security policies are studied. The role of cryptography in assuring confidentiality and integrity is examined. Other topics include authentication, auditing, penetration testing, common vulnerabilities and intrusion detection. The course concludes with the case study of a realistic secure system. Students will be asked to read papers from the security literature and apply them to material given in the lectures. (4 credits) Prerequisite: CS 401 or consent of the Department faculty

CS 471 Parallel Programming
The standard processor for all new computers is now a multi-core processor, which has the potential to execute programs much more quickly. However, to utilize this potential, a programmer must have some knowledge of parallel programming techniques. During this course, students will spend most of their time writing and debugging parallel programs. The expected outcome will be to develop a new level of practical programming skill. This skill will not only be useful for programming of multi-core processors, but also operating systems programming and distributed database programming. The software tools used during this course include Microsoft Visual C/C++, the OpenMP threading standard, and the Message-Passing Interface (MPI) standard. In addition to multi-core processors, this course also covers techniques for programming a computer cluster (many individual workstations networked together and working collectively on a single computation) (4 credits) Prerequisite: CS 401 or consent of the Department faculty

CS 472 Web Application Programming
This course covers languages, tools, and technologies for developing interactive and dynamic web sites. Topics and technologies include HTTP, HTML, CSS, client and server-side programming, database interactions, web security, and Ajax technologies. (4 credits) Prerequisites: CS 401 or consent of the Department faculty

CS 473 Mobile Device Programming
The importance of mobile device programming has emerged over recent years as a new domain in software development. This course prepares students to develop applications that run on mobile devices such as an iPhone, iPad or Android phone. This is a rapidly developing market. This course focuses on installing, developing, testing, and distributing mobile applications. At the end of this course students will be able to develop an app for the platforms covered, simulate them, test them on the real device, and finally publish on the app store to make the app available to users. (4 credits)
CS 475 Computer Graphics: How to Represent and Graphically Express the Dynamic Intelligence Captured in Software Systems
One of the fastest growing areas of computer technology, computer graphics is used extensively to present the vast amount of information resulting from a computing process. This course studies data representation, display devices and graphics hardware, display lists, device independence, two-dimensional and three-dimensional graphics, display of curves and surfaces, hidden line and hidden surface removal, shading and rotation techniques, graphics languages, and introduction to image processing. (2–4 credits) Prerequisite: CS 401 or consent of the Department faculty

CS 477 Server Side Programming
This course focuses on using JavaScript at the backend (NodeJS). Students will learn how NodeJS works and gain a deep understanding of its core application programming interface (API). The course covers how the JS compiler engine (V8) works, how to structure code using modules, and how asynchronous code works in Node and the Node event loop. The course also teaches Node Package Manager (NPM), how to build a web server, how to work with Express framework, and how to use noSQL databases such as MongoDB. Students will learn all the techniques that define a modern web application, including authenticating users with JSON Web Tokens, persisting data in the database, and building a Restful API. The course also covers many other computer science concepts. Topics include: HTTP & Rest API design; Maintaining application state; Node API; MVC architecture, Express framework, and middleware programming; Server-side routing; Token-based authentication; Data modeling using Mongoose; Generators and Promises; Proxy (Handlers, Traps); Reflection; NoSQL API; Firebase/Firestore; TypeScript, Transpilers; Builders (Webpack, Parcel); Nestjs; Google Cloud Platform (Functions); API in the cloud; Dockerizing App, and Containers Orchestration. (4 credits) Prerequisite: CS 421

CS 482 Software Development with Fundamental Design Patterns
This course is an introduction to 23 GoF (Gang of Four) design patterns. Design patterns are proven solutions to recurring problems in object-oriented software design/development. Our course will cover the rationale and benefits of using them in real projects, with an emphasis on both the intellectual understanding and the ability to discover, apply, and implement them correctly (in Java) in any software project. Textbook: Design Patterns: Elements of Reusable Object-Oriented Software (4 credits) Prerequisite: CS 401 (Note: Students may not get credit for taking both CS 525 and CS 482)
CS 485 Theory of Computation: The Abstract Basis of All Possibilities in Computation

Formal abstract models of computation study the fundamental limitations and capabilities of computers. This course presents a hierarchy of increasingly sophisticated abstract machines in relation to their increasing ability to recognize more general classes of formal languages. Topics include: formal grammar, finite-state machines, equivalence of finite-state machines, right-linear and left-linear grammar, context-free languages, Turing machines, unsolvable problems, and recursive functions. (4 credits) Prerequisite: CS 401 or consent of the Department faculty

CS 488 Big Data Analytics

Data is the new natural resource: it is doubling every 12–18 months. Organizations have a choice on how to deal with the volume, variety, and velocity of data: to be buried under the avalanche, or to harness it for competitive advantage and grow. Big Data Analytics helps organizations gain relevant information and insights to support decision-making in real-time. Most organizations are still just scratching the surface of the opportunity. The Big Data Analytics course covers the fundamental concepts and tools for managing and mining large and diverse datasets to generate new insights. Topics include business intelligence, data preparation, data warehousing, data visualization, and data mining. The course covers statistical and Artificial Intelligence techniques for data mining, text mining, and web mining. Students will do analytics on multimillion record datasets, and also on streaming social media data. The R programming language, IBM SPSS Modeler, and other open source systems will be used to develop practical data analytics skills. Students will also do a group project to solve a real-life problem using data analytics. (2–4 credits) Prerequisites: CS 390 (if taken), CS 401, and CS 435. CS 422 highly recommended, but not required. Or a previous course in machine learning, data mining, or data science taken at this or another qualified university

CS 490 Topics in Computing

This course surveys and studies current technologies and application areas in computing. Typically it will include a substantial research and laboratory component to gain experience with advanced areas of computing and computer science. (2–4 credits) Prerequisite: CS 401 or consent of the Department faculty

CS 495 Software Development: Applying Knowledge of Software Systems for Greater Skill in Action

In this course, students participate in a comprehensive system development project to apply and integrate the concepts of software design and implementation. Topics include: methods and tools for large system development including analysis, design, testing, and
documentation. Students work in teams to develop a substantial analysis and design project. (4 credits) 

**CS 496 Software Development Senior Project: Practical Experience in Applying the Knowledge of Computer Science to Create Software Systems**

In this course students create an original software project from the ground up from the initial analysis and design phases through implementation and testing. Students are expected to submit several project proposals before the start of the course, and submit a written project postmortem at the end of the course. With Faculty approval this course can be extended to two months to facilitate a larger project (4 or 8 credits) 

**Prerequisite:** 
CS 495 or CS 425

**CS 499 Directed Study: Faculty Directed Study of Specialized Topics**

(variable credits) 

**Prerequisites:** consent of the Department faculty and the Academic Standards Committee

**Graduate-Only Courses**

**CS 505 Advanced Programming Languages: The Integrated Source of All Programming Languages as a Basis for Understanding and Applying Principles of Programming**

This course considers topics in programming language design and definition with emphasis on formal methods and abstraction mechanisms. 

**Topics include:** the comparison of different programming paradigms, data and control abstraction, formal specification of syntax and semantics, advanced control structures, and study of specific languages including functional programming. (4 credits) 

**Prerequisite:** CS 401 or consent of the Department faculty

**CS 515 Software Engineering Seminar**

This course introduces the student to the best practices in software development through a software development methodology. The course centers on a small project in which the principles discussed in the lecture format can be illustrated and applied. (2 credits)

**CS 522 Big Data: Finding Harmony within Great Diversity**

Modern information processing is defined by vast repositories of data that cannot be handled by traditional database systems. This course covers latest technology developed and used by industry leaders to solve this problem in the most efficient way. Specific topics covered include mappers, reducers, partitioners, combiners, HDFS, Hadoop cluster architecture, in-mapper combining, pairs and stripes, computing relative frequencies, secondary sorting, web crawling, inverted indexes and index compression. (4 credits) 

**Prerequisites:** CS 401 or CS 435
CS 523 Big Data Technology
The aim of the course is to add important tools in your arsenal to help you solve various big data problems. The course answers questions like “What is Big Data? Why is it important or useful? How do you store big data?” The course covers different tools and programming models from the big data technology stack that help analyze the data. Topics include projects in the Hadoop ecosystem such as MapReduce, Pig, Hive, Sqoop, Flume, HBase (NoSQL DB), Zookeeper, and Apache Spark ecosystem projects, and an introduction to AWS and EMR. (4 credits)

CS 525 Advanced Software Development: The Structures and Patterns of Natural Law in Software That Embody Knowledge of Good Design
This course considers the current methods and practices for good design of software systems. Topics include: software design patterns, frameworks, architectures, and designing systems to apply these multi-level abstractions. (2–4 credits) Prerequisite: CS 401 or consent of the Department faculty

CS 544 Enterprise Architecture: Actions in Accord with the Laws of Nature
This course focuses on teaching the principles and practices used when developing larger scale enterprise applications. We will examine the different architectural layers that are frequently used and different technologies associated with these layers. Topics include: Object Relational Mapping (ORM), Dependency Injection (DI), Aspect Oriented Programming (AOP), The EJB / Service layer, Transaction Management, Scheduled Tasks/Batch processing, and Service Oriented Architecture (SOA) for integration with other applications. (4 credits) Prerequisite: CS 422 or strong working knowledge of relational databases and SQL, and consent of the Department faculty

CS 545 Web Applications: Architecture and Frameworks: Integration of Parts and Wholeness in Large-Scale Distributed Software Systems
This course presents the issues, methods, and techniques for creating multi-computing distributed systems across networked or more tightly coupled interconnect systems. Topics include: communication, protocol, and synchronization; performance; and the architecture of server, client/server, multi-tier, and mobile agent distributed object systems. Software issues of portability, extendibility, and interoperability are also studied. (4 credits) Prerequisite: CS 472 or passing grade on CS 472 waiver quiz

CS 568 Web Application Development 1
React is the most popular library for building powerful web applications. In this course, students will learn how to use React and ES6 to build robust, scalable applications from the ground up using the latest Redux patterns to maintain their application state.
Topics include: Component-based web application development, Components Design Patterns, Consuming rest APIs, Persistence with browser API, JSX and React API (props, proptypes, events, refs), Application data flow, and Deploying React apps. (4 credits)
Prerequisite: CS 474

CS 569 Web Application Development 2
In this course, students will learn Reactive Programming Architecture of Single Page Web Applications (SPA) along with all the necessary skills to build a full modern web application using TypeScript and Angular. They will gain a deep understanding of how Angular works, including: Change detection; Reactive RxJs programming with observables and subjects; The Shadow DOM; Zones; Modules, components, custom directives, and pipes; Services and dependency injection; Angular compiler: JIT and AOF compilation; Forms (template driven and data driven); Routing, guards and route protection; HTTP client; and JWT JSON Web Token authentication. (4 credits)
Prerequisite: CS 474

CS 571 Mobile Application Development
This course transitions from web development to mobile application development using React Native, a popular framework from Facebook that enables cross-platform native applications to run using JavaScript without Java or Swift. The course will introduce you to modern JavaScript, called JavaScript XML (JSX), which is a JavaScript extension. You will gain experience with React Native and its paradigms, application architecture, and user interfaces. The course culminates in a final project in which students will implement a mobile app entirely of their own design. (4 credits) Prerequisite: CS 570

CS 572 Modern Web Applications
In this course, students will study the current architectures of web design, including SPA, and other frameworks generally used in these designs, including NodeJS, AngularJS, and NoSQL databases (MongoDB). Along with all the necessary skills to build a full modern web application, we will cover: How the C++ V8 engine works; How to structure code for reuse and expand using modules and ExpressJS; How asynchronous code works in Node and the Node event loop; Building SPA Single Page Applications using AngularJS (backed by Google); Deep understanding to how AngularJS works, custom directives, dependency injection, two way data binding, the digest loop, watchers; and How NoSQL databases work, Mongo Shell, Aggregation framework, Mongoose. (4 credits) Prerequisite: CS 472 or passing grade on CS 472 waiver quiz
CS 574 Practicum in Software Development: Lifelong Learning and Development of Consciousness
Consciousness is the most abstract, intimate experience of one’s self. The development of consciousness is revealed through experiences in which one finds a creative solution to a problem from deep within oneself, or one feels a quiet self-confidence that allows you to persist on some difficult task, or one feels an inner stability that permits you to adapt flexibly and confidently to changes taking place in your environment. In this practicum, students learn about such experiences, reflect on such experiences in their own lives, and write a STAR report as an aid for future job interviews. (1–3 credits, may be repeated once for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) 

Prerequisite: written authorization.

CS 575 Practicum in Software Development: Applying Theory to Practice
In this practicum course, students perform computer-related tasks in a technical professional position. The tasks performed may be in the design and development of new systems or the application of existing systems for specific purposes. Practicum job descriptions are formulated prior to employment by the employer and the student, and course registration requires approval in advance by the Computer Science department. To complete this course, students reflect on their experience in the current or recent semesters and relate, in detail, an example in which they had to use appropriate concepts and theories in CS to frame a problem, conceive a solution, and implement the solution efficiently using appropriate data structures and algorithms. Students write up their case as a STAR report that they can draw on in future job interviews. (1–3 credits, may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) 

Prerequisite: written authorization.

CS 576 Practicum in Software Development: Contemporary Tools and Techniques in Computer Science
Computer science is a rapidly developing field. In this course, students reflect on their experience in the current or recent semesters using contemporary tools and techniques in computer science. They identify the context of a problem, identify the class of solutions that would be appropriate for the problem, and discuss their choice and use of a contemporary tool or technique that solves the problem efficiently. Students write up their case as a STAR report that they can draw on in future job interviews. (1–3 credits, may be repeated once for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) 

Prerequisite: written authorization.
CS 577 Practicum in Software Development: Team Organization and Leadership
Programming may be a solitary task, but it occurs in the context of a multi-person project that must fulfill a client’s needs. Programmers need to know how to work in teams, and eventually to lead teams, no matter whether one’s career develops in a technical or a managerial direction. In this course, students learn the basic concepts of team organization and management and reflect on teamwork issues in their own work experience in order to evaluate effective or ineffective handling of a problem in teamwork. Students write a STAR report on this topic as an aid for future job interviews. (1–3 credits, may be repeated once for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Prerequisite: written authorization.

CS 578 Practicum in Software Development: American Business Culture
Practicum students work as computer programmers in the context of American business culture. In this course, students learn about the professional, ethical, legal, and social issues in American business culture that affect the workplace and reflect on these issues in their own work experience, and apply knowledge of the standards of behavior from American business culture to resolve problems in the workplace. Students write a STAR report on this topic as an aid for future job interviews. (1–3 credits, may be repeated once for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Prerequisite: written authorization.

CS 579 Final Project
In this project, students will apply the tools and technologies they have learned to create and deploy a web or mobile app, which involves building a full stack back-end API and a user interface using any front-end framework. (4 credits)

CS 580 Seminar in Current Research Topics
Advanced knowledge and current research issues are presented in a specialized area of computer science. The course includes readings of current journal articles in the field and a substantial independent project by students. (4 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Prerequisite: consent of instructor

CS 582 Machine Learning
Machine Learning, the field of study that gives computers the ability to learn from data, is at the heart of almost every scientific discipline, and the study of generalization (that is, prediction) from data is the central topic of machine learning. This course gives a graduate-level introduction to machine learning and in-depth coverage of new and advanced methods in machine learning, as well as their underlying theory. It emphasizes
approaches with practical relevance and discusses a number of recent applications of machine learning, such as Data Mining (in Big Data / Data Science, Data Analytics), Natural Language Processing, Computer Vision, Robotics, Bioinformatics, and Text and Web data processing. Topics include: supervised learning (generative/discriminative learning, parametric/non-parametric learning, neural networks, support vector machines, decision tree, Bayesian learning & optimization); unsupervised learning (clustering, dimensionality reduction, kernel methods); learning theory (bias/variance tradeoffs; VC theory; large margins); reinforcement learning and adaptive control. (4 credits) 

Prerequisite: CS 435

**CS 590 Software Architecture**

In this course we will look at the techniques, principles and patterns of how to design flexible, scalable, testable and resilient software systems using microservices. We will study how we can split up large applications into smaller microservices that are easier to build and gives much more advantages compared to monolithic enterprise applications. But a distributed microservice architecture also gives many challenges. We will study these challenges and how we can tackle these challenges. Topics of this course are architectural styles, integration techniques and patterns, domain driven design, event driven architecture and reactive programming.

**CS 598 Computer Science Internship**

This course offers practical, professional experience in computer programming. Students apply classroom knowledge to an industrial or University project. During the internship, students submit detailed reports on their computer programming activities. (2 credits) Prerequisites: consent of the Department and the Academic Standards Committee, and written authorization of the faculty member who will be overseeing the internship.

**CS 599 Directed Study**

(4 credits) Prerequisite: consent of the Department faculty and Academic Standards Committee
DAVID LYNCH GRADUATE SCHOOL OF CINEMATIC ARTS

FACULTY

• Dorothy Rompalske, MFA, Associate Professor of Screenwriting and Film, Director of the MFA in Screenwriting
• Michael Barnard, MFA, Assistant Professor of Film and Video Production
• Amine Kouider, MFA, Assistant Professor of Creative Arts and New Media
• Daniel Nearing, MFA, Visiting Professor of Film and Video Production, Director of the MFA in Film & Video Production
• Antonia Ellis, MFA, Adjunct Assistant Professor of Screenwriting
• Chad Gervich, MFA, Adjunct Assistant Professor of Screenwriting
• Judith Kenny, MPA, Adjunct Assistant Professor of Screenwriting
• Alex Kustanovich, MFA, Adjunct Assistant Professor of Screenwriting
• Anya Leta, MFA, Adjunct Assistant Professor of Screenwriting
• Adam Nadler, MFA, Adjunct Assistant Professor of Screenwriting
• Martha Nochimson, MFA Adjunct Assistant Professor of Screenwriting
• Roz Sohnen, MFA, Adjunct Assistant Professor of Screenwriting
• Neal M. Stevens, MFA, Adjunct Assistant Professor of Screenwriting
• Roger Wolfson, JD, MA, Adjunct Assistant Professor of Screenwriting

INTRODUCTION

The graduate program in cinematic arts, inspired by renowned filmmaker David Lynch, offers MFA degrees in Screenwriting and in Film & Video Production.

MFA in Screenwriting

The MFA in Screenwriting is structured so that students can complete the requirements of a high-quality MFA while balancing the life/work commitments they have in their home communities. This two-year low-residency program combines distance learning with four required 10-day residencies on campus and one optional field trip to Los Angeles.

Each semester will begin with an intensive residency on campus at MUM, during which students will attend lectures, panel discussions, master classes, staged readings, and workshops led by a combination of university faculty members and internationally recognized entertainment industry leaders.
At the conclusion of each residency, students return home to continue their coursework online through distance education under the guidance of a dedicated mentor, an industry professional and educator who will monitor their progress.

There will be a fifth, optional, residency held in Los Angeles at the end of the program, designed to introduce students into the film industry. With finished screenplays in hand, they will learn to market their work to agents, producers, studio executives, and others.

**International MFA in Film & Video**

The MFA in Film & Video is offered in Shanghai, China in association with Shanghai Jiao Tong University’s School of Media and Design, the Shanghai Theatre Academy, and with Shanghai Haize Education Consultancy Service Ltd. This international MFA is a low-residency terminal degree in the applied arts of digital media conception and production. Each semester begins with a nine-day residency in English (with translation) that is followed during the semester by online instruction for courses taught by MUM and by a combination of online and on-campus instruction for courses taught in Mandarin through SJTU. Students interact with faculty throughout the year through the online educational platform of the course.

**MFA IN SCREENWRITING**

**Entrance Requirements for the MFA in Screenwriting**

For entrance into the screenwriting MFA program, students must 1) hold a bachelor’s degree *in any subject*, 2) present an up-to-date résumé that lists their degrees and relevant coursework, professional work experience, awards, and accomplishments, 3) submit a fictional screenwriting sample that applicants believe best represents their talent, plus a one-page synopsis of that script, 4) submit a Statement of Purpose (500 words maximum) explaining why they are interested in joining the David Lynch MFA in Screenwriting, and 5) submit a short script based on the writing prompt provided in the department’s application.

Students who are not yet practicing the Transcendental Meditation technique will receive instruction in the technique as part of their first course.

**Graduation Requirements for the MFA in Screenwriting**

The MFA in Screenwriting is a four semester long Low-Residency Program. Students attend an intensive 10-day residency on the MUM campus at the beginning of each semester, then return home to attend classes and work on their writing projects under the guidance of a screenwriting mentor. A fifth and final residency will be held in Los Angeles.
In order to qualify for the MFA in Screenwriting, students must successfully complete all requirements for the Master’s in Fine Arts degree. (Please refer to “Degree Requirements” in “Academic Policies.”) They will produce two polished writing projects, one of which must be a feature screenplay. The second may be a feature screenplay or a television series proposal (bible) and pilot script.

Students must complete 48 credits of coursework as follows:

_Note: In-residence courses are marked with an asterisk. All other courses are held online._

- STC 509 The Science and Technology of Consciousness Applied to the Creative Process (4 credits)
- DLMFA 500* Residency #1: Advanced Narrative (2 credits)
- DLMFA 501* Residency #2: Consciousness, Creativity, and the Screenwriting Process (2 credits)
- DLMFA 502* Residency #3: Expanding Your Universe – Storytelling for Television (2 credits)
- DLMFA 503* Residency #4: Screenwriting and the Film Industry (2 credits)
- DLMFA 510 Diving Deep into the Art of David Lynch (4 credits)
- DLMFA 520A Advanced Writing for Visual Media, Part 1 (6 credits)
- DLMFA 520B Advanced Writing for Visual Media, Part 2 (6 credits)
- DLMFA 520C Advanced Writing for Visual Media, Part 3 (6 credits)
- DLMFA 520D Advanced Writing for Visual Media, Part 4 (6 credits)
- DLMFA 530 Advanced Script Analysis: A Creative Approach to Uncovering Deeper Levels of Meaning in Storytelling (4 credits)
- DLMFA 588 The Business of Show Business (4 credits)

These additional courses are optional and not required for graduation:

- DLMFA 504* Residency #5: Career Development for Writers in the Entertainment Industry (2 credits)
- DLMFA 525 Scriptwriting Thesis Project (2-6 credits per semester; _may be repeated with permission of the program director_)

**INTERNATIONAL MFA IN FILM AND VIDEO**

This MFA is a comprehensive three-year program in film and video production that has four distinctive features. First, it teaches students how to tell a story, including classic
Chinese stories, in a way that appeals to audiences internationally. Second, it gives students the opportunity to acquire experience in all aspects of the craft of filmmaking: screenwriting, producing, directing, cinematography, editing and other aspects of post-production. Third, it acquaints students with the business aspects of filmmaking. Finally, and most importantly, through the practice of the Transcendental Meditation program, it develops the creative potential of the filmmaker to support success in one’s personal and professional life.

Students will have the option to participate in an organized trip to Los Angeles to experience the American film industry. Please Note: While the costs associated with Shanghai residencies and courses are included in program tuition, costs for the trip to Los Angeles are note covered by tuition. Students will be responsible for the additional costs of attending.

**Instruction in English and Chinese**

The international language of cinema is English, and this International MFA program will have many faculty who are English speakers. They will lecture in English during the on-campus residencies twice each year, but their lectures will be translated simultaneously into Mandarin. Required readings in each course will be available in Chinese translation and required films will be subtitled in Chinese.

The online portion of instruction in each course will be conducted using the Canvas learning management system. It will include, for example, Discussion Forums in which students post short essay responses to the questions given by the professors. Students must post their responses in English, so students who draft their responses in Chinese will need to use translation software or translation services, at their own expense, to prepare the English version for posting.

Some class assignments may involve research using sources outside of the required texts and readings, so students who want to use English-language sources must be able to read the sources in English or be assisted by their own translation software.

Students must submit their class assignments in English, either by their own writing or with the assistance of translation software. If the professor receives an assignment that is not sufficiently comprehensible in English, the professor will return the assignment to the student to seek professional assistance for improved translation.

For these reasons, students who have a good ability to read, write, and understand English will find it much easier to gain the full benefits of this International MFA
program. Proficiency in English will give applicants an advantage in the admissions process.

**Entrance Requirements for the International MFA in Film and Video**

In addition to meeting university admission criteria, applicants must:

(1) Provide evidence of an undergraduate degree in media, multimedia, communications, or the liberal arts. If the undergraduate degree is not in these fields, the applicant may provide evidence of equivalent work experience that demonstrates aptitude or proficiency in the techniques in filmmaking, and

(2) Submit an application package that includes:
  a. a portfolio: this entails a sample of a prior production on a streaming platform (such as YouTube or Vimeo), and/or screenplay (PDF), and/or alternate evidence of creative accomplishment
  b. a personal essay or statement of intent with respect to goals for the degree, and artistic philosophy

(3) Proficiency in English will give applicants an advantage in the admissions process. We recommend, but do not require, that applicants submit an English-proficiency test score (IELTS or TOEFL).

(4) Students may be requested to participate in a personal interview conducted by the MFA admissions committee.

**Graduation Requirements for the International MFA in Film and Video**

The International MFA in Film and Video degree requires 68 semester-hours of credit at the graduate standard. The degree may be taken on a full-time or part-time basis. The core (required), selective, and elective courses include the following. Please note that the curriculum may evolve from one year to the next, and this will entail course changes. Students will graduate under the terms of curriculum of the catalog in place in the year of admission.

The MFA degree in Film and Video requires a total of 68 semester-hour credits of course and thesis work, which consist of 25 credits in a Core Curriculum, 18 credits of advanced study, 6 credits of internship, 9 credits of thesis work, and up to 10 credits of electives.
Core Curriculum (23 credits)
All MFA students must take the following courses in the Core Curriculum. Waivers to these requirements, based on previous professional experience, will be permitted only by petition to the Program Director.
- DLFV 500 Survey of Film and Video Production (2 credits)
- DLFV 510 The Creative Process (2 credits)
- DLFV 511–515 Creative Intelligence Seminar (1 credit per semester, minimum 3 credits required for graduation)
- DLFV 520 World Cinema I (2 credits)
- DLFV 530 Screenwriting I (2 credits)
- DLFV 532 Narrative East and West (2 credits)
- DLFV 540 Pre-Production (3 credits)
- DLFV 550 Production I (6 credits)
- DLFV 580 The Business of Delivery and Distribution (2 credits)

Advanced Study in Aesthetics and Technique (20 credits)
MFA students prepare for their thesis work by taking six or more of the following advanced courses in aesthetics and technique. These courses will be offered according to the needs and interests of the student body, but not less than once every two years.
- DLFV 556 The Visual Language of Cinema, (2 credits)
- DLFV 620 World Cinema II (2-4 credits)
- DLFV 630 Screenwriting II (2-4 credits)
- DLFV 632 Advanced Screenwriting (2-4 credits)
- DLFV 650 Producing (2-4 credits)
- DLFV 652 Directing (2-4 credits)
- DLFV 653 Directing Performance (3 credits)
- DLFV 654 Cinematography (2-4 credits)
- DLFV 660 Editing (2-4 credits)
- DLFV 662 Audio (2-4 credits)
- DLFV 662 Visual Effects (2-4 credits)
- DLFV 670 Documentary Filmmaking (2-4 credits)

Internship in Film and Video (minimum 6 credits, maximum 12)
All students are required to undertake internships in the minimum aggregate of 6 credits (or 12 weeks).

The student must identify a field-related internship topic or project and identify an on-site supervisor for the project. The student will submit to the MFA Program Director a petition for the internship that states the educational objectives of the internship and identifies a full-time faculty member who will be the internship evaluator. In special
circumstances, the internship may be conducted at an on-campus location. Upon approval of the faculty evaluator and submission of the Internship Petition, the student may register for DLFV 692 Internship.

- DLFV 692 Internship (2–4 credits)
- DLFV 792 Internship (2–6 credits). *May be repeated for credit.*

**The Thesis Requirement (minimum 9 credits, maximum 12)**

In the thesis/project, the student actively participates in an aspect of the design, production and/or delivery of a film project undertaken at a graduate standard. Project scope and duration to be approved prior to registration by the faculty advisor. For thesis credit, the student must serve in one of the following roles:

- Producer
- Screenwriter
- Director/Cinematographer
- Editor

Credit for any other function on a thesis project will be permitted only with the approval of the program director.

The student selects a Thesis Committee consisting of a thesis chair and two additional faculty members, then develops a proposal acceptable to the committee. The faculty chair must be drawn from full-time faculty; the other committee members may come from part-time faculty or may be an external evaluator, subject to the chair’s approval.

The thesis project is a significant piece of work. Except in special circumstances subject to rigorous approval, the thesis registrant’s role in the related production(s) may not be a shared credit. The function must be clearly defined in writing and approved by the faculty advisor prior to registration. Students are otherwise encouraged to collaborate with their classmates, colleagues in their workplaces, and with the community as subjects, cast, and crew in the making of thesis projects.

As students proceed through their own thesis work, and that of their classmates, they register for the following courses as appropriate to their role in the project at that time. At the end of the program, each student will exhibit their film and defend it in an oral examination.

- DLFV 730 Thesis Screenwriting (variable credits)
- DLFV 740 Thesis Pre-Production (variable credits)
- DLFV 750 Thesis Production (variable credits)
- DLFV 760 Thesis Post-production (variable credits)
- DLFV 790 Thesis Exhibition (1 credit)
Students may register for DLFV 700-level courses only after the committee has approved the student’s proposal. The student then completes the thesis project/production with the guidance of the thesis chair. An 8-10 page paper taking the form of a production diary must accompany all projects submitted for evaluation. The purpose of the accompanying paper is to speak reflectively on the student’s experience of the production process and to facilitate insight into the experience that cannot be observed through reviewing the thesis project in itself.

Each credit of DLFV 700-level work must be substantiated by at least 45 hours of project-related work with periodic supervision and feedback from the faculty.

*Elective Courses (not required; 9 credits maximum)*
Up to 9 (nine) credit hours in graduate level courses taken in other disciplines at SJTU may be undertaken and counted toward the total credit hours allowable for graduation.

Note: while the provision of the elective category is intended to allow flexibility in the degree path, students are not required to choose courses outside the curriculum of The International MFA in Film and Video.

On a limited basis, MFA students may also elect to undertake a registered Independent Study in lieu of a regularly scheduled course:
- DLFV 590 Independent Study (1-4 credits in first year)
- DLFV 690 Independent Study (1-9 credits after first year)

Students may take internship credits, beyond the minimum of 6 credits, as electives.
- DLFV 692 / DLFP 792 Internship (up to 6 additional credits above the minimum.)

COURSES

**DLMFA 500 Residency #1: Advanced Narrative and Transformational Storytelling**
This course examines the essential role narrative plays in the creation of entertainment media, with an eye towards crafting works of lasting value. Through guest lectures, screenings, and writing exercises, students will explore the fundamentals of dramatic storytelling, including theme, style, character development, dialogue, and story structure, with a special emphasis on transformational narratives in the creative process. (2 Credits)

**DLMFA 501 Residency #2: Consciousness, Creativity and the Screenwriting Process**
This course continues the process of discovering how the Transcendental Meditation technique enhances creativity. The course will feature special guests who are experts in the neural correlates of meditation and the creative process. (2 credits)
DLMFA 502 Residency #3: Expanding Your Universe – Storytelling for Television
Experts from the television industry will be on hand at this residency to introduce students to new ways to craft stories for the small screen and update them on the latest entertainment industry trends. (2 credits)

DLMFA 503 Residency #4: Screenwriting and the Film Industry
This residency focuses on preparing students for the practical concerns of presenting and marketing their work. It includes brainstorming techniques and instruction on how to network and pitch their projects to the entertainment industry. (2 credits)

DLMFA 504 Residency #5: Career Development for Screenwriters
This special, optional, residency brings students together in Los Angeles where they will have the opportunity to meet with leading figures in the film industry. Course work includes putting into practice their marketing skills with industry representatives, including agents, producers and studio executives. (2 credits)

PLEASE NOTE: While the costs associated with the first four required residencies held on the MUM campus are included in program tuition, this optional Los Angeles residency is NOT covered by tuition. Students will be responsible for the additional costs of attending (2 credits)

DLMFA 510 Diving Deep into the Art of David Lynch: A Study in Freedom and Craft
In this unique course, taught by Lynch scholar Martha Nochimson (author of The Passion of the David Lynch and David Lynch Swerves), we will explore how David Lynch’s writing connects to his unique creative process. By closely studying selected work by Lynch as inspiration for our own creative processes, we will look deeply into the way the filmmaker crafts his films once ideas have come to him. (4 credits)

DLMFA 520A Advanced Writing for Visual Media: Storytelling through Character, Consequence, and Consciousness, Part A
DLMFA 520B Advanced Writing for Visual Media: Storytelling through Character, Consequence and Consciousness, Part B (6 credits)
DLMFA 520C Advanced Writing for Visual Media: Storytelling through Character, Consequence and Consciousness, Part C (6 credits)
DLMFA 520D Advanced Writing for Visual Media: Storytelling through Character, Consequence and Consciousness, Part D (6 credits)
In this course, students delve deeper into the craft of writing for the screen, with the goal of developing their own projects. Continuing the exploration of narrative principles, they
will study more advanced techniques of storytelling focused on scene development, alternative structuring, and sequence design. Through analysis of published scripts, screenings, guided exercises, and group workshops, students will attain the tools needed to develop their concepts into marketable final projects.

Screenwriting MFA Students complete writing assignments given to them by their mentors. This workshop will continue across all four semesters of the program (see course numbers below). While writing assignments will differ each semester, the methodology for dealing with them will be the same. Students will submit written work on a pre-determined schedule, receive personal criticism and grading from their mentor during online meetings, and participate in a workshop environment with the other students in the course. (6 credits)

**DLMFA 530 Advanced Script Analysis: A Creative Approach to Uncovering Deeper Levels of Meaning in Storytelling**
Through the careful study and analysis of award-winning screenplays, students will discover the keys to crafting their own successful scenarios, with an eye to works that tell transformational stories of personal meaning to their authors. (4 credits)

**DLMFA 525 Scriptwriting Thesis Project**
This course is available to students who need time beyond the standard four semesters of this program to finish their thesis project. Students will register for this course and pay for it on a per-credit basis. (2–4 credits per semester; may be repeated with permission of the program director)

**DLMFA 588 The Business of Show Business - Desire, Action and Achievement**
This course will take place at the conclusion of the program and will focus on current best industry practices for pitching, publicizing and selling screenplays. Each student will be required to create materials that support their thesis project. This course connects to the final, optional, residency in Los Angeles during which students will have the opportunity to present their work to such industry professionals as producers, agents and studio executives. (4 credits)

**DLFV 500 Survey of the International MFA in Film and Video**
In this introductory course, students are guided through the design and policies of the MFA degree path, create mock-thesis proposals for film projects, deliver in-class presentations based on their experiences and film work to date, write 5-year career projections, and engage with the wider film community in Shanghai. (2 credits)
**DLFV 510 The Creative Process**
The goal of this course is for the student to gain experience and understanding of the science and technology of consciousness and its relationship to the creative process. The study of consciousness and creative intelligence is the unifying basis of all branches of knowledge. This course provides a foundation for all other courses to be taken on the degree path. (2 credits)

**DLFV 511–515 Creative Intelligence Seminar**
The student will undergo advanced explorations and experiences of the science and technology of consciousness and its relationship to creativity, drawing on a combination of various sources of knowledge combined with the practice of Transcendental Meditation to access ideas from the deepest levels of consciousness. This course will be undertaken each semester for one credit hour. (1 credit; may be repeated for credit)

**DLFV 520 World Cinema I**
This course involves screenings and analysis of film history, American and international films, breakthrough films from China, contemporary international feature films, and web series. (2 credits)

**DLFV 530 Screenwriting I**
Students engage in consciousness-based conception, gain command of screenplay structure, and engage in the drafting of approved loglines, synopses, treatments, outlines, and screenplays at a range of lengths and for a range of platforms. It is recommended that drafting of the thesis screenplay commence in this course. (2 credits)

**DLFV 532 Narrative East and West**
Students will study the fundamental narrative traditions of the East and the West, exploring how these complement and contrast with one another, and how the student might utilize aspects of both traditions to enhance her story-telling and narrative skills to appeal to the widest possible international audiences and marketplaces. (2 credits)

**DLFV 540 Pre-Production**
In this course, student producers draft the thesis film lookbook or pitch deck, locked script, production schedule, and production budget (deferred and actual). Casting is conducted and locations are scouted. (3 credits)

**DLFV 550: Production I**
In this first hands-on course, students engage in creating short film productions and exercises associated with producing, cinematography, editing, and sound. (6 credits)
DLFV 552 The Visual Language of Cinema
In this class, students will gain command of visual grammar of cinematic storytelling, including emphasis on the transnational American model and the lexicon of the film industry in English-language markets. (2 credits)

DLFV 580 The Business of Delivery and Distribution
The emphasis in this course, which will appeal to student producers, is on marketing and the business of distribution, drawing from industry examples and applying the international approaches to the development of the thesis film – identifying distributors, making posters, trailers, developing marketing strategies, and submitting to festivals. (2 credits)

DLFV 590 Independent Study
In the first year, students have the option of proposing and registering an independent study to complement or, upon approval only, replace a course. (1-3 credits; may be repeated for credit)

DLFV 520 World Cinema II
In this course, we pursue a continued immersion in screenings and analysis of breakthrough films from China, historical and contemporary international feature films, and web series. (2 credits)

DLFV 632 Advanced Screenwriting (3 credits)
This course expands upon the principles of cinematic storytelling learned in its prerequisite (DLFV 530 - Screenwriting I) and entails further drafting, extensive revisions, and table readings of student screenplays.

DLFV 650 Producing
In this course, students take on all the functions of the Producer while undertaking the development of a feature film, television program, or streaming episodic or one-off content. In addition to drafting a treatment, securing a property, and creating a budget and schedule, students endeavor to develop a project that could conceivably become a feature production while attending the university or upon graduation. (3 credits)

DLFV 652 Directing
This course is centered on the art and craft of directing dramatic film and television productions, including exercises in critical viewing, the drafting of shot lists and storyboards, and activities such as blocking action, shot composition, and continuity directing in a studio environment. (3 credits)
DLFV 653 Directing Performance
This course will immerse students in the experience of working with actors, including processes of casting, rehearsal, blocking, and on-set communication. (3 credits)

DLFV 654 Cinematography
The art and techniques of Cinematography are the focus of this course. The course explores the principles of the image making process, including still and motion picture photography, and provides instruction and hands-on experience in camera operation and lighting. (3 credits)

DLFV 656 Documentary Filmmaking
This course requires students to explore all phases of in the development, field production, editing and delivery of independent documentaries. Feature-length documentaries may subsequently be proposed as theses in the MFA path. (3 credits)

DLFV 660 Editing
This course involves lab-based instruction and application of the theories and techniques of nonlinear digital video editing and effects, using Avid or Adobe Premiere Pro and AfterEffects. (3 credits)

DLFV 662 Audio
The audio class involves applied processes in acquisition of professional grade sound in studio and remote production, in tandem with the management and manipulation of audio files in post-production. (3 credits)

DLFV 690 Independent Study
Students may submit a formal proposal for an independent study project to replace a course subsequent to completing the Core Curriculum. Faculty advisor approval required for registration. (1-9 credit hour registrations allowed after the first year)

DLFV 692 Internship
In the required internship phase of the degree, the student independently pursues a field-related work assignment and develops a corresponding written agreement with the assistance of the MFA Internship Coordinator and a Faculty Supervisor. Upon approval of the MFA Internship Coordinator, the student may register for DLFV 692 Internship. (1-12 credit hour registrations across the semesters; minimum of 6 completed credits required for graduation)
DLFV 730 The Screenplay Thesis
Upon approval of a formal proposal by the faculty advisor, accomplished students dedicated to working in the craft of screenwriting may undertake the composition of one or more feature-length screenplays in exchange for thesis credit. (1-12 credits)

DLFV 740 Advanced Thesis Pre-Production
This advanced course in the craft of producing involves revision of the thesis film lookbook or pitch deck, the securing of a locked script, a finalized production schedule and a final production budget. Casting is concluded and locations are secured, insured and contracted where needed. (3 credits)

DLFV 750 Thesis Production
This higher-level course entails the making of the thesis film. The student will function in an eligible and formally approved crew category including writer-director, producer, editor, cinematographer, and others subject to review. Students may function in more than one crew category: for example, the cinematographer (director of photography) in Thesis Production and pursue credit as editor in Thesis Post-Production. (1-12 credits)

DLFV 760 Thesis Post-Production
In this higher-level course, the producer of the thesis film oversees all phases of the completion of the film, including its final sound mix, color grading, and delivery of the work to festivals or prospective distributors. (1-12 credits)

DLFV 790 Thesis Exhibition
A Director and/or Producer of the Thesis accompanies the film where possible to international screenings, including markets, festivals, and educational environments. (1 credit)
DEPARTMENT OF DEVELOPMENT OF CONSCIOUSNESS

FACULTY

• Michael Farrer, MA, Chair, Department of the Development of Consciousness, Instructor of Maharishi Vedic Science
• Kristine Wood, BS, Director, Department of Development of Consciousness
• Julie Beaufort, MA, Department Administrator, Department of Development of Consciousness

INTRODUCTION

The development of consciousness is a core value of the University and an integral component of the academic program. The regular practice of the Transcendental Meditation technique as part of a balanced routine of rest and activity allows students to naturally grow in higher consciousness as they cultivate the total potential of their brain physiology. Nearly five decades of scientific research have shown Transcendental Meditation to be highly beneficial to student success and the promotion of campus harmony. For this reason, practicing the Transcendental Meditation technique is an important and required part of the curriculum and daily life at Maharishi University of Management. All students, faculty, and staff practice the Transcendental Meditation technique in the morning and afternoon. Many students also learn the advanced TM-Sidhi program, including Yogic Flying, and practice this in large groups in the Golden Domes of Pure Knowledge. The result is a healthy, creative, and peaceful individual — the basic unit of a healthy, creative, and peaceful community, nation, and world.

SPECIAL FEATURES

• Campus-wide support and development of Maharishi’s technologies of consciousness with a focus on a healthy daily routine with regular practice of the Transcendental Meditation and TM-Sidhi programs
• Group meditation in the classroom with fellow students and faculty
• Group practice of the TM and TM-Sidhi programs with fellow students, faculty, and staff
• TM Retreats for Meditators — including specially structured extra meditation, plus knowledge meetings with discussion of experiences of the growth of consciousness
• World Peace Assemblies for Sidhas — including large group practice in the Golden Domes, plus knowledge meetings with discussion of experiences of the growth of consciousness
• Knowledge meetings on development of consciousness offered throughout the year to
promote greater understanding of the growing integration of life that is the goal of this
program
• Personal Transcendental Meditation checking with a certified teacher of the
Transcendental Meditation technique to help ensure the proper practice of the
Transcendental Meditation technique

COURSES

Undergraduate Courses

MVS 100 The Transcendental Meditation Program: Developing the Total Potential
of the Human Brain
All students begin their studies at Maharishi University of Management by learning the
Transcendental Meditation technique, a simple, natural, effortless procedure practiced 20
minutes twice a day while sitting comfortably with the eyes closed. The technique is easy
to learn and enjoyable to practice, and is not a religion, philosophy, or lifestyle. Over six
million people have learned it – people of all ages, cultures, and religions. This course
includes personal instruction in the Transcendental Meditation technique as well as
monthly followup by a certified teacher to ensure the student is gaining maximum
benefit. The laboratory component of this course includes twice-daily group meditation in
the classroom. (1 credit)

DC 320 The Transcendental Meditation Program: Developing Higher States of
Consciousness through Regular Alternation of Deep Rest and Dynamic Activity
This course includes additional group practice (beyond what is required in the classroom)
of the Transcendental Meditation technique in one of the meditation halls. Full-time
undergraduate students who practice the Transcendental Meditation technique but have
not completed the TM-Sidhi course are eligible for enrollment in this course, which runs
concurrent with every block in which they are registered. (1 credit per semester)
Prerequisite: MVS 100

MVS 331 Transcendental Meditation-Sidhi Course: Learning to Harness Total
Natural Law to Work for You and Fulfill Your Desires, Part I
The Transcendental Meditation technique allows the mind to settle down effortlessly and
naturally to experience pure consciousness, the Self, the silent inner reservoir of
creativity and intelligence that underlies all our mental activity. The TM-Sidhi® program
cultures the ability to think and act from that profound inner silence, so that our thoughts
and actions are more joyful, powerful, and life-supportive. The TM-Sidhi program was
brought to light by Maharishi from the Yoga Sutras of Patanjali, from the ancient Vedic
tradition. This course includes instruction in the TM-Sidhi program and group knowledge
and experience meetings. (2 credits) **Prerequisites:** MVS 100, at least two months of regular practice of the Transcendental Meditation technique, completion of the TM-Sidhi course application, and acceptance by the Maharishi Foundation.

**MVS 332 Transcendental Meditation-Sidhi Course: Learning to Harness Total Natural Law to Work for You and Fulfill Your Desires, Part II**
Following successful completion of MVS 331, students may enroll in MVS 332 to complete their instruction in the TM-Sidhi program, including Yogic Flying, in a two-week in-residence format. Students will move into special on-campus housing for this part of the course. (2 credits) **Prerequisites:** MVS 331, regular practice of the Transcendental Meditation technique, completion of the TM-Sidhi course application, and acceptance by the Maharishi Foundation.

**DC 332 The Transcendental Meditation and TM-Sidhi Programs, including Yogic Flying: Learning to Think and Act from the Level of Transcendental Consciousness**
This course includes additional group practice of the Transcendental Meditation and TM-Sidhi program, including Yogic Flying, (beyond what is required as homework for other courses) in the Golden Domes or other flying hall. All undergraduate students who have completed the TM-Sidhi course are eligible for enrollment in this course, which runs concurrent with every block in which they are registered. (2 credits per semester) **Prerequisite:** MVS 332

**Graduate Courses**

**MVS 501 The Transcendental Meditation Program: Developing the Total Potential of the Human Brain**
All students begin their studies at Maharishi University of Management by learning the Transcendental Meditation technique, a simple, natural, effortless procedure practiced 20 minutes twice a day while sitting comfortably with the eyes closed. The technique is easy to learn and enjoyable to practice, and is not a religion, philosophy, or lifestyle. Over six million people have learned it – people of all ages, cultures, and religions. This course includes personal instruction in the Transcendental Meditation technique as well as monthly follow-up by a certified teacher to ensure the student is gaining maximum benefit. The laboratory component of this course includes twice-daily group meditation in the classroom. (1 credit)

**MVS 531 Transcendental Meditation-Sidhi Course: Learning to Harness Total Natural Law to Work for You and Fulfill Your Desires, Part I**
The Transcendental Meditation technique allows the mind to settle down effortlessly and naturally to experience pure consciousness, the Self, the silent inner reservoir of creativity and intelligence that underlies all our mental activity. The TM-Sidhi® program
cultures the ability to think and act from that profound inner silence, so that our thoughts and actions are more joyful, powerful, and life-supportive. The TM-Sidhi program was brought to light by Maharishi from the Yoga Sutras of Patanjali, from the ancient Vedic tradition. This course includes instruction in the TM-Sidhi program and group knowledge and experience meetings. (2 credits) Prerequisites: MVS 501, at least two months of regular practice of the Transcendental Meditation technique, completion of the TM-Sidhi program course application, and acceptance by the Maharishi Foundation

**MVS 532 Transcendental Meditation-Sidhi Course: Learning to Harness Total Natural Law to Work for You and Fulfill Your Desires, Part II**
Following successful completion of MVS 531, students may enroll in MVS 532 to complete their instruction in the TM-Sidhi program, including Yogic Flying, in a two-week in-residence format. Students will move into special on-campus housing for this part of the course. (2 credits) Prerequisites: MVS 531, regular practice of the Transcendental Meditation technique, completion of the TM-Sidhi course application, and acceptance by the Maharishi Foundation

**FOR 500 Science of Creative Intelligence: Understanding and Experience of the Source, Course, and Goal of Creative Intelligence in Your Own Pure Consciousness as the Basis of All Knowledge and Success in Life**
In the Science of Creative Intelligence, students study the structure of the field of pure intelligence, from which all fields of knowledge arise. Only from this most fundamental level can knowledge be unified. This graduate course examines how the creative intelligence displayed in every grain of creation arises in a systematic and sequential fashion from within that one basic universal field. Students also examine how one can access and use that universal field of intelligence to bring fulfillment to their own lives and to life on earth. In 1972, Maharishi laid out the main principles of this new science in a 33-lesson, videotaped course. He integrated the understanding of nature’s intelligence provided by modern science (through its objective approach) and by ancient Vedic Science (which uses both objective and subjective approaches to gaining knowledge). It is the first course taken by all new graduate students. (2-4 credits)

**DC 520 The Transcendental Meditation Program: Developing Higher States of Consciousness through Regular Alternation of Deep Rest and Dynamic Activity**
This course includes additional group practice (beyond what is required in the classroom) of the Transcendental Meditation technique in one of the meditation halls. All graduate students who practice the Transcendental Meditation technique but have not completed the TM-Sidhi course are eligible to enroll in this course, which runs concurrent with every block in which they are registered. (1 credit per semester) Prerequisite: MVS 501
DC 535 The Transcendental Meditation and TM-Sidhi Programs, including Yogic Flying: Learning to Think and Act from the Level of Transcendental Consciousness

This course includes additional group practice of the Transcendental Meditation and TM-Sidhi program, including Yogic Flying, (beyond what is required as homework for other courses) in the Golden Domes or other flying hall. All graduate students who have completed the TM-Sidhi course are eligible for enrollment in this course, which runs concurrent with every block in which they are registered. (2 credits per semester)

Prerequisite: MVS 532
DEPARTMENT OF EDUCATION

FACULTY

• Christopher Jones, EdD, Professor of Education, Dean of Assessment and Undergraduate Studies
• Jane Schmidt-Wilk, PhD, Dean of Teaching and Learning
• Catherine Gorini, PhD, Professor of Mathematics, by courtesy
• Susan Dillbeck, PhD, International Professor of Education

INTRODUCTION

The Department of Education offers courses for training faculty to develop and deliver Consciousness-Based education. The department also offers credit-bearing courses for those who learn the Transcendental Meditation technique in a variety of settings around the U.S.

COURSES

ED 101/501 The Transcendental Meditation Program, Part 1: Developing the Total Potential of the Human Brain
This course introduces students to the theory and practice of the Transcendental Meditation technique. The course includes seven steps of instruction, one advanced lecture, and two personal checkings. Students keep a log of their meditations and a reflective journal of their experience, summarized in a paper at the end. (1 credit)

ED 102/502 The Transcendental Meditation Program, Part 2: Developing the Total Potential of the Human Brain
This course begins where ED 101 leaves off with regard to understanding correct practice of the Transcendental Meditation technique and gaining a vision of possibilities for self-development. Students view several lectures online that review correct practice of the technique and explore advanced levels of human development. These lectures combined with several readings provide a vision of possibilities available through regular practice. As with ED 101, students finish with a self-reflection and a paper focused on future personal development made possible through the practice. (1 credit) Prerequisite: ED 101 or equivalent, or ED 501 or equivalent

ED 398 Internship
This course is an elective for students who wish to have practical experience teaching at any level. Students assist or co-teach in classrooms under the supervision of University
faculty. Readings, journal writing, other written exercises, and regular performance feedback help guide and inform their teaching experiences. (variable credits)

Prerequisite: consent of the instructor

ED 399 Directed Study
(variable credits) Prerequisites: consent of the faculty and the Academic Standards Committee

ED 670 Faculty Training Course: Learning the Techniques of Consciousness-Based Education to Deliver Education for Enlightenment
This course introduces new MUM faculty to the principles and practices of Consciousness-Based education, as brought out by Maharishi, all of which help accelerate the development of higher consciousness in the students. This course focuses on the instructional charts that characterize the presentation of knowledge in a Consciousness-Based course in ways that integrate the specific knowledge of the discipline with its broader principles, and with the broadest principles, those describing the functioning of the Self of the students as they grow toward enlightenment. Topics include learning cycle of Knowledge-Action-Achievement-Fulfillment; the Course Overview, Unified Field, Main Points, and Unity Charts; principles of ideal teaching; and the structure of an effective lesson. (2 credits) Prerequisite: consent of instructor

ED 675 Advanced Consciousness-Based Education: Maharishi’s Principles of Ideal Teaching
Maharishi has identified five Fundamentals of Education: Receptivity, Intelligence, Knowledge, Experience, and Expression. Maharishi’s specific principles of curriculum and teaching are classified according to these five Fundamentals. In this course MUM faculty will learn how to most effectively apply in their classrooms the key principles from each of these five fundamentals, for their students’ greater academic achievement, accelerated development of consciousness, and increasing satisfaction and fulfillment. (2 credits) Prerequisite: ED 670

ED 676 Maharishi’s Instructional Charts for Developing Enlightenment Advanced Consciousness-Based Education
This course helps MUM faculty create and refine their use of the instructional charts from Maharishi used in Consciousness-Based higher education classrooms, and thereby greatly increasing the relevance of the charts and fulfillment of the students. Topics include the most engaging, fruitful ways to use the Course Overview, Main Points, Unified Field, and Unity Charts. (2 credits) Prerequisite: ED 670
ED 680 Faculty Workshop for Critical and Creative Thinking Seminars: Training Students in the Art of Thinking
Faculty will learn practical strategies for fostering in students the ability to listen with empathy, reflect thoughtfully, follow open-mindedly where logic leads, generate creative solutions to problems, and consider ethical implications of their decisions. Included are resources for active learning, reading comprehension, substantive writing, informal and Vedic logic, Socratic dialogue, creative expression, and assessment. Faculty will also explore developmental and pedagogical issues, and reflect on the deepest levels of reason and intuition in light of the Science and Technology of Consciousness. (1 credit) For faculty only

ED 681 Advanced Workshop in Consciousness-Based Education: Applying Maharishi’s Principles of Curriculum and Instruction
This workshop trains faculty and academic leaders in the knowledge and practices of Consciousness-Based Education curriculum and instruction. After taking this course, participants will be able to train and guide other faculty. Topics include instructional charts, principles of ideal teaching, developing students’ ability to express knowledge, daily routine, and online education. (4 credits) Prerequisite: ED 670 or equivalent

ED 685 Designing and Teaching Consciousness-Based Courses: Knowledge Supporting Total Brain Functioning (Workshop)
This course is the first in a series of three courses that lead to a certificate in Consciousness-Based teaching. In this course students learn the fundamental knowledge and skills necessary to manage a Consciousness-Based classroom. Topics include: the goals and objectives of Consciousness-Based Education, Consciousness-Based curriculum and teaching principles, course design, assessment, and classroom management. Students take an initial two-week course followed by regular monthly meetings for the whole academic year. (2 credits) Prerequisite: faculty status.

ED 686 Seminars Part A and B: Designing and Teaching Consciousness-Based Courses: Knowledge Supporting Total Brain Functioning
This course is the second and third in a series of three courses which lead to a certificate in Consciousness-Based teaching. Students take an initial two-week course (ED 685) followed by regular monthly meetings for the whole academic year. Topics include: the goals and objectives of Consciousness-Based Education, Consciousness-Based curriculum and teaching principles, course design, assessment, and classroom management. (5 credits each for Part A and Part B) Prerequisite: ED 685
FACULTY

• Terry Fairchild, PhD, Co-Chair, Professor of Literature
• Nynke Passi, MA, Co-Chair, MFA Program Director, Associate Professor of Literature and Writing
• Leah Waller, MFA, BA and BFA Program Director, Assistant Professor of Creative Writing
• Ben McClendon, MA, PhD, Composition Program Director, Writing Center Director, Assistant Professor of Creative Writing and Rhetoric
• James Fairchild, PhD, Professor Emeritus of Literature and Writing
• Craig Deininger, MFA, PhD, Assistant Professor of Creative Writing and Literature
• Rustin Larson, MFA, Adjunct Professor of Creative Writing
• Paul Morehead Jr., MFA, Adjunct Professor of Cartoon Studies
• Sasha Parmasad, MFA, Adjunct Professor of Creative Writing
• Dylene Cymraes, BFA, Adjunct Instructor of Writing

INTRODUCTION

The Department of English teaches writing from a basis of consciousness, nurturing the full creative potential of developing poets and writers so it can flourish. All of our students practice the Transcendental Meditation technique, which gives them direct access to the source of creativity within. At the heart of our teaching is a unique emphasis on creative process, an approach that places the writer at the center. We don’t just give reading and writing assignments, we offer techniques and mentorship to support students to break through writer’s block and develop the healthy, sustainable creative routine of the professional writer. In all of our classes, we create a safe space to help students grow in skill, self-confidence, and direction.

Our faculty are credentialed, working creatives with strong backgrounds in poetry, fiction, creative nonfiction, literature, and/or cartoon studies. We take mentorship seriously and are committed to bringing out the best in our students. We believe that a nurturing, inclusive, and socially aware learning environment inspires students to find authentic material and develop an authentic voice. Our classrooms are creative laboratories where students can unguardedly experiment with subject matter and craft; if students feel comfortable making mistakes and trying new things, they are bound to discover new frontiers, finding themselves energized with the possibilities and power of creation.
From this basis of deep respect and creative flow, we delve into rigorous academic exploration of craft and technique. Our faculty offer copious, supportive, and critically astute feedback that makes the revision process exciting. Our writing classes include hands-on assignments, readings, discussions, workshops, and master classes. We invite visiting poets, writers, and publishers to speak to our students about creativity and the life of the writer in the world. All of our programs strongly emphasize real-world adaptation and professional preparation.

For the past twenty years, our BA in Creative Writing has been one of MUM’s most successful and popular programs. Our graduates have been accepted to prestigious graduate programs in Journalism and Creative Writing, including the University of Minnesota, U.C. Berkeley, the University of Iowa, the University of Montana, Boston University, Northern Arizona University, The Foundry, Columbia College of Chicago, and Kingston University London. Others have gone on to successful careers as magazine editors, copywriters, freelancers, educators, administrators, web designers, therapists, social media experts, and more. Our graduates have published novels and children’s books, sometimes to national acclaim, plus have published essays, stories, and poetry in a great variety of anthologies, literary journals, and regional or national publications such as The Iowa Source, The Rumpus, The Atlantic, Smithsonian Magazine, The L.A. Times, The American Journal of Poetry, The Washington Post, Lonely Planet Travel Guide, River of Earth & Sky: Poems for the 21st Century (Blue Light Press), and more.

In short: it is our aim to stimulate our students’ personal growth along with their academic accomplishment and professional development and success. We warmly welcome students to culture their literary abilities within our unique and dynamic creative community.

PROGRAMS OFFERED

- Bachelor of Arts (BA) in Creative and Professional Writing
- Bachelor of Fine Arts (BFA) in Creative and Professional Writing
- Low-Residency Master of Fine Arts (MFA) in Creative Writing
- Minor in Creative and Professional Writing
- Minor in Literature

The Department of English also directs the Composition program and the Writing Center.
SPECIAL FEATURES

BA in Creative and Professional Writing

These are some of the unique features of our undergraduate program:

- **Consciousness and Creative Process:** In our BA in Creative and Professional Writing, students explore their own creativity in-depth, learning to find discipline, motivation, excitement, and joy in both the writing and the revision process. We dig deep in our examination of how the subtle mechanics of different aspects of craft and technique promote transcendence, dynamism, transformation, and expansion. Our students use meditation as a tool for creativity.

- **Reading and Literature:** In his book *On Writing: A Memoir of the Craft*, Stephen King proposes: “If you want to be a writer, you must do two things above all others: read a lot and write a lot.” The best way to learn about the craft of writing is to examine the works of great poets and writers as examples. The study of literature is an essential part of our program. We emphasize reading in every class, exposing students widely to the contemporary and traditional literary canon. All of our writing workshops include literary analysis and/or process analysis for a deeper understanding of craft.

- **Academic Foundation:** The curriculum of our BA in Creative and Professional Writing offers a thorough academic foundation in three core genres: poetry, fiction, and creative nonfiction. In addition, we offer classes in a variety of other genres, such as graphic narrative, screenwriting, and journalism (writing and photography, travel writing).

- **Real-World Adaptation:** We take a pragmatic approach to the writing life, emphasizing professional skills that will help students see themselves as writers in the world. Our curriculum includes courses in writing pedagogy, editing, publishing, social media marketing, and more. We also offer internship possibilities that represent real-world work experience, and we provide students with opportunities to read their work in public forums and to publish in local as well as national magazines and literary journals. Our aim is to help students prepare for successful careers.
A sampling of our courses:

**Creative and Professional Writing:**
Poetry (Introduction to Poetry; Poetry of Transcendence; Advanced Poetry) • Fiction (Short Story; Novel Writing; Advanced Fiction, Flash Fiction) • Creative Nonfiction (Memoir; Personal Essay; Flash Nonfiction) • Hybrid Forms • Graphic Narrative • Screenwriting • Hidden Figures • Journalism • Blogging and Writing for the Web • Writing to Publish • Professional Editing • Social Media Marketing • Writing Pedagogy • Linguistics • Introduction to Rhetoric • BFA Studio Block

**Literature:**
The Hero in Literature • Film as Literature • Medieval Literature • Shakespeare • Renaissance Literature • The Romantic Period • Victorian Literature • Modern British Literature • Contemporary Literature • Fantasy Fiction • Asian Literature • Special Topics Seminars (e.g. The Ramayana; The Japanese Novel; The Novels of Jane Austen; Hemingway; The Lord of the Rings)

**BFA in Creative and Professional Writing**
Our BFA program is designed to give a true taste of the writing life. Students are admitted into the BFA in a specific genre of emphasis (poetry, fiction, creative nonfiction, or with permission dual genre). The final studio semester gives students the time and support to develop a body of work of publishable quality that can serve as a chapbook submission or graduate school application. The BFA is highly recommended for advanced students eager to publish and/or apply to graduate programs in Journalism or Creative Writing.

Our BFA master classes and workshops provide a concentrated immersion in craft. Students receive in-depth, challenging feedback from faculty and peers as they push a body of work toward completion for an end-of-semester public reading. The workshop format hones the ability to critique the work of self and others and offers the opportunity for rigorous revision. Studio classes promote self-reliance as well as intensive self-discipline. Students are encouraged to reach beyond their boundaries, experiment, and keep an open mind. The program also teaches career skills: how to apply to MFA programs, how to submit to magazines and literary journals, how write cover letters and/or statements of purpose. In addition, the program gives a taste of the editor’s life; each BFA cohort collaboratively edits and produces the new issue of our high-quality online literary journal, *Metafore*.

In the course of four BFA Studios, students develop a 30-to-50-page portfolio in a genre of choice. Each student works under the guidance of their monthly BFA Studio faculty as
well as a board of two faculty advisors. As a special bonus, our BFA students have the opportunity to receive feedback from an independent reviewer, a published author who is also an established faculty at another university. Independent Reviewer Joy Lyle, graduate of the Iowa Writers’ Workshop and professor of English and Creative Writing at Indian Hills Community College, called our 2018 BFA workshops “exceptional” and “graduate level.”

**Low-Residency MFA in Creative Writing**

Like our undergraduate programs, our two-year low-residency MFA in Creative Writing sets itself apart by teaching from a foundation of consciousness and creativity, developing the poet/writer holistically. Our students learn the Transcendental Meditation technique, which gives them direct access to the source of creativity within. Many poets and writers have written about their need to go deeply inward in order to create. The mind’s freedom to leap to surprising, fresh associations is greatly facilitated by its ability to transcend. It’s by tapping deep levels of creative imagination that writers/poets can bring out stories, ideas, images, and metaphors with power to move and transform others.

Writers thrive in a creative community, which offers sustenance, encouragement, and constant inspiration. Our program revolves around human connection—not only an inclusive, uniquely nourishing family feeling among faculty and students, but also a great emphasis on writing authentically, in an emotionally connected and truthful manner. Our faculty are highly credentialed and accomplished working poets and writers who understand process deeply—not just inspiration, but especially the fine-tuned labor of honing craft and technique. We believe that in a supportive, inclusive, yet challenging and stimulating learning environment, students are free to experiment with craft and mine their material deeply. This approach stimulates creativity, discovery, and productivity; it helps students find an authentic voice and pushes them into innovative approaches that will make their work stand out. Our program also makes room to nourish the part of the writing process that cannot be taught: the ineffable energy and life force—‘duende,’ as the Spanish poet Federico García Lorca called it—needed to bring great writing to life. Our ultimate aim is to nurture the unimaginable and help students journey so deep within themselves that they can find words to say the unsayable.

The low-residency model has unique advantages. Students can complete the requirements of a high-quality MFA while balancing life and work commitments in their home communities. Aside from offering flexibility, the low-residency model provides both the nurturing literary community and the solitary discipline of writing that working poets and writers require. Each semester starts with a 10-day on-campus residency, with a total of five residencies in the course of the program. These intensives provide bonding, nourishment, and push. Prestigious visiting poets and writers offer advanced workshops,
read from their work, explore craft in master classes, or speak about creative process in panel discussions. Semesters consist of online craft classes and workshops alongside in-depth one-on-one mentorships, an approach that increases social interaction and accountability. Our writing mentorships also include process seminars where students focus on reading and craft analysis in support of their thesis work.

The MFA offers specialization options in poetry, fiction, creative nonfiction, and dual genre. All assignments and requirements of the program support the launching of a career—a student’s journey from aspiring poet or writer to author. The MFA thesis is a book-length manuscript of publishable quality. Students write a critical introduction, contextualizing their own process, and create an online platform for themselves as authors as well as marketing plans for their books. The program stimulates social awareness in a writing outreach, which can serve as a brief internship or teaching practicum. A course in writing pedagogy helps students prepare a teaching portfolio before they exit the program. During the capstone residency, students teach a master class on craft and give a public reading of their thesis work.

The MFA is a terminal degree in the field that prepares students for a variety of possible careers, including (community) college and university teaching, freelance writing, magazine or book editing, publishing, coaching, advertising, public affairs, and more. Our (guest) faculty model what it means to be a writer in the world and how to choose career paths that support and augment the writing life. Alumni of our program remain part of our unique and dynamic literary community.

DEPARTMENTAL REQUIREMENTS

The Department of English offers a variety of undergraduate programs. Students can take a BA or a BFA in Creative and Professional Writing. We also offer minors in Literature or Creative and Professional Writing. Please note that literature credits are required for students who want to earn a BA in Education with the aim of becoming high school English teachers. The 48-credit BA program allows interested students to earn a double major.

For advanced students who want to publish and/or continue their academic studies with an MA in Journalism or an MFA in Creative Writing, we highly recommend the BFA in Creative and Professional Writing as a preparatory program. Our BFA is uniquely designed to help students prepare a statement of purpose and an admission portfolio of publishable quality. In the past twenty years, well over a dozen of our graduates have been admitted to leading MA in Journalism or MFA in Creative Writing programs, not just in the U.S. but also abroad.
Starting in the spring of 2020, we offer a two-year low-residency MFA in Creative Writing. The MFA is a terminal degree in the field of Creative Writing and allows graduates to teach at college and university level.

**Graduation Requirements for the BA in Creative and Professional Writing**

To graduate with a BA in Creative and Professional Writing, students must successfully complete all requirements for a Bachelor of Arts degree (please refer to “Degree Requirements” in “Academic Policies”). As part of these requirements, students must complete 48 credits of coursework from the list below, including at least 32 credits of coursework from the Department of English: Creative Writing and Literature (WTG or LIT). Please note that MC-W electives have to be approved by a department chair or the program director.

*4 credits of Core Writing courses (pick one):*
- WTG 313 Writing Short Fiction or MC-W 300 The Art of Story
- WTG 344 Creative Process

*plus 4 credits of Critical Thinking (CCTS) courses (choose one):*
- LIT 363 Film as Literature
- WTG 206 Introduction to Rhetoric

*plus 12 credits of Literature courses:*
- Any LIT course level 200 and above

*plus 20 credits of Writing courses:*
- Any WTG course 200 and above

*plus 8 credits of Elective courses:*
- Any WTG or LIT courses level 200 and above (MC-W courses may also qualify but have to be approved by a department chair or the program director)

*plus students must:*
- Complete a Senior Project, a final portfolio of original creative work (15–20 pages)
- Complete an Exit Paper (5 pages)

**Entrance Requirements for the BFA in Creative and Professional Writing**

BFA candidates must demonstrate strong writing promise and an ability to collaborate harmoniously within a team of peers. They must also demonstrate an eagerness to use
feedback to their advantage and have the willingness to challenge themselves as writers under faculty guidance. Applicants must submit a 3 - 5-page writing sample of their best work along with their application in order to be considered for the program. Submissions can be in the genres of poetry, fiction, creative nonfiction, or dual genre. Students are admitted to the BFA in a specific genre (or dual genre) with approval of the board of BFA faculty, the program director, and the department chairs.

**Graduation Requirements for the BFA in Creative and Professional Writing**

To graduate with a BFA in Creative and Professional Writing, students must successfully complete all requirements for the Bachelor of Fine Arts degree (please refer to “Degree Requirements” in “Academic Policies”). As part of the requirements for this degree, all students must complete 78 credits of required courses as follows: 2 credits of Core BFA Forest; 8 Core Writing Courses; 4 CCTS credits; 16 credits of LIT; 20 credits of WTG (including minimally one in fiction, one in nonfiction, and one in poetry); 8 credits of WTG, LIT, or MC-W electives; 4 credits of Professional Preparation; and 16 credits of BFA Studio Courses. Please note that MC-W electives have to be approved by a department chair or the program director.

**2 Credits of Core BFA Forest:**
- FOR 375 Introduction to the Bachelor of Fine Arts in Creative and Professional Writing

**plus 8 credits of Core Writing courses:**
- WTG 313 Writing Short Fiction or MC-W 300 The Art of Story
- WTG 344 Creative Process

**plus 4 credits of Critical Thinking (CCTS) courses (choose one):**
- LIT 363 Film as Literature
- WTG 206 Introduction to Rhetoric

**plus 16 credits of any Literature courses:**
- Any LIT level 200 and above

**plus 20 credits of Writing courses, which must include:**
- At least one WTG course in Fiction (4 credits)
- At least one WTG course in Nonfiction (4 credits)
- At least one WTG course in Poetry (4 credits)
plus 8 credits of Elective courses:
• Any WTG or LIT courses level 200 and above (MC-W courses may also qualify but have to be approved by a department chair or the program director)

plus 4 credits of Professional Preparation courses (pick one):
• WTG 203 Professional Editing
• WTG 206 Introduction to Rhetoric
• WTG 371 Writing to Publish

plus 16 credits of BFA Studio:
• WTG 475 Creative and Professional Writing BFA Studio

plus students must:
• Complete a BFA Thesis, a final portfolio of original creative work (30 - 50 pages, depending on genre)
• Complete a Reflection Paper (7 - 10 pages)
• Deliver a Public Reading
• Receive final approval from the BFA Committee

Graduation Requirements for a Minor in Creative and Professional Writing

To graduate with a minor in Creative and Professional Writing, students must complete 4 credits of Core Writing Courses (Creative Process, Writing Short Fiction, Film as Literature, Introduction to Rhetoric, or Professional Editing) plus 16 credits of any WTG courses. MC-W electives have to be approved by a department chair or the program director.

Graduation Requirements for a Minor in Literature

To graduate with a minor in Literature, students must complete 20 credits of LIT courses.

Entrance Requirements for the Low-Residency MFA in Creative Writing

Applicants to the low-residency MFA in Creative Writing are required to submit the following materials for admission into the program:

- **Transcript showing conferral of BA degree:** Applicants must hold a BA degree in any subject (a major, minor, or emphasis in creative writing, literature, communication studies, or journalism is preferred but not necessary).
- **Résumé:** Applicants must present an up-to-date résumé that lists their degrees and relevant course work, attendance of summer writing programs or conferences,
TA-ships, professional work experience, publications, and other awards and accomplishments.

- **Admission Portfolio:** Applicants must present a portfolio of original creative work in a specific genre of emphasis: poetry, fiction, creative nonfiction, or dual genre. The required length is 20 – 25 pages of prose (double-spaced) or 10 – 15 pages of poetry (single-spaced, one poem to a page). A dual genre application should include portfolios in two genres with a total length of 20 – 25 pages. Excerpts from longer work should start with the first chapter and include a brief synopsis. The admission portfolio should showcase range and/or the potential of the project the applicant plans to work on in the program. Please note that the quality of the admission portfolio is the key deciding factor in the admission process.

- **Statement of Purpose:** Applicants must present a statement of purpose (500 – 1,000-words, typed, double-spaced) outlining their relationship to their chosen genre(s) and their own writing process, as well as their reasons for applying to our program.

- **Craft Analysis:** Applicants must present a 750-word (3-page) essay exploring the mechanics of craft in a literary work of choice.

- **Letters of recommendation:** Applicants must submit three letters of recommendation by writers, teachers, or other professionals who know the applicant in a professional or academic setting.

- **Interview:** Applicants must engage in a pre-acceptance interview (in person or online) with the MFA program director and departmental faculty.

Admitted students who are not yet practicing the Transcendental Meditation program will receive instruction in the Transcendental Meditation technique as part of their first course.

**Graduation Requirements for the MFA in Creative Writing**

In order to qualify for the MFA in Creative Writing, students must successfully complete all requirements for the Master of Fine Arts degree (please refer to “Degree Requirements” in “Academic Policies” in MUM’s online catalog).

Students are required to produce a **Professional Portfolio** that should include the following:

- **A Thesis:** an original creative work of publishable quality in the student’s chosen genre(s) of emphasis (60 – 150 pages in length depending on genre).
• A Critical Introduction to the Thesis: a 2,500 word analysis of a student’s creative process and choices of craft, giving the thesis a scholarly and literary context.

• A Writing Pedagogy Portfolio: a sampling of curriculum development including lesson plans, syllabus, rubrics of learning objectives and outcomes, assessment, an outline for a master class, plus a statement of teaching philosophy.

• An Online Portfolio: a social media platform including website, online CV, links to active social media pages, a blog, and samples of (published) work.

Students are required to participate in or present the following:

• A Public Reading of creative work scheduled during the capstone (5*) residency.

• A Master Class on an aspect of craft taught during the capstone (5*) residency.

• A Writing Outreach. In the third semester of study, students participate in a writing outreach where they use skills gained in the program in service of their local communities. The writing outreach can serve as an internship or teaching practicum.

Students must also complete minimally 48 credits of coursework selected from the following:

Note: In-residency courses are marked with an asterisk. All other courses are taught online.

Residencies*

8 – 10 credits of the following:

• CW 501 Residency 1*: Advanced Creative Process—Exploring the Leaping Imagination: Curving Back Onto My Own Nature, I Create Again and Again (Required, 2 credits)

• CW 502 Residency 2*: Advanced Narrative—Transformational Storytelling in Fiction, Creative Nonfiction, and Poetry: The Story of Individuality and the Story of Eternity in One Glance (Required, 2 credits)

• CW 503 Residency 3*: Unwrapping Form—Lyric Association, Braiding, Borrowing, and Experimentation: Taking Fullness from Fullness, What Remains Is Fullness (Required, 2 credits)

• CW 504 Residency 4*: The Writing Life: Turning Imagination into Reality (Required, 2 credits)
• CW 505 Residency 5*; The Journey from Writer to Author: *The Celebration of Action, Achievement, and Fulfillment* (Required, 1-2 credits)

**Online Courses**

*16 credits of the following:*

- STC 510 The Writer and the Self—Consciousness and Creative Process: *Tracking the Path of Transcending* (Required, 2 credits)
- STC 511 Literature and the Self—Literary Techniques that Expand Awareness: *The Spontaneous Outburst of Both the Heart and the Mind of the Poet/Writer* (Required, 2 credits)
- CW 533 Every Page a Pulse—Nurturing the Unimaginable and Saying the Unsayable: *Finding the Self Nearer than Breath, than Heartbeat* (Required, 2 credits)
- LIT 534 Literary Theory for the Creative Writer: *The Whole is Greater than the Sum of Its Parts* (Required, 2 credits)
- CW 541 Writing Pedagogy—The Theory of Teaching Creative Writing: *Integrating Subjective and Objective Reality* (Required, 2 credits)
- CW 542 The Socially Conscious Writer—Writing Outreach: *Finding Unity in Diversity* (Required, 2 credits)
- CW 544 The Writer Online—Social Media Marketing and Strategy: *A Vision of Unbounded Possibility* (Required, 2 credits)

**Advanced Creative Writing Mentorships**

*16 credits of the following:*

- CW 560 Advanced Poetry Mentorship: *Cultivating the self and Self of the Poet* (4 credits)
- CW 561 Advanced Fiction Mentorship: *Cultivating the self and Self of the Fiction Writer* (4 credits)
- CW 562 Advanced Creative Nonfiction Mentorship: *Cultivating the self and Self of the Nonfiction Writer* (4 credits)
- CW 563 Advanced Multi Genre Mentorship: *Cultivating the self and Self of the Poet/Writer* (4 credits)
- CW 593 Advanced Creative Writing Mentorship—MFA Thesis: *The Self-Realization of the Poet/Writer* (Required, 4 credits)
Advanced Process Mentorships: Reading and Craft Analysis

8 credits of the following:

- LIT 560 Advanced Process Mentorship in Poetry: *A Vision of All Possibilities* (2 credits)
- LIT 561 Advanced Process Mentorship in Fiction: *A Vision of All Possibilities* (2 credits)
- LIT 562 Advanced Process Mentorship in Creative Nonfiction: *A Vision of All Possibilities* (2 credit)
- LIT 563 Advanced Process Mentorship in Multiple Genres: *A Vision of All Possibilities* (2 credit)
- LIT 593 Advanced Process Mentorship — Writing a Critical Introduction to the MFA Thesis: *Self-Referral Integration of Imagination and Intellect* (Required, 2 credits)

Credit Summary
R = Residency; M = Mentorship; OC = Online Course

OC: Online course work (4 credits per sem.) 16 credits total
R: Residencies 1 – 4 (2 credits per sem.) 8 credits total
R: Residency 5 1 – 2 credits total
M: Advanced Creative Writing Mentorships (4 credits each, sem. 1 – 3) 12 credits total
M: Advanced CW Mentorship: MFA Thesis (sem. 4) 4 credits
M: Advanced Process Mentorships (2 credits each, sem. 1 – 3) 6 credits total
M: Advanced Process: Critical Introduction to the MFA Thesis (sem. 4) 2 credits
M: Extended MFA Thesis (elective) (4 credits)
TOTAL: 48 – 54 credits

Footnote: There are extra credits built into the program to ensure that students who miss (a portion of) a residency can still graduate on time with a minimum of 48 credits. The fifth mentorship semester is optional for students who require more time and support to finish their theses.

COURSES

Undergraduate Courses: Creative and Professional Writing

WTG 191 College Composition 1: Writing and the Ability to Gain Knowledge
Students in Composition 1 begin to refine thinking and writing skills founded on their experiences of Being. They integrate two fundamental characteristics of writing: the ongoing process of Self-discovery, and the creation of a finished work. They develop greater facilities with the writing process while strengthening foundational skills. Students read and discuss narrative models to locate the intimate connections between reading and writing. (4 credits)
**WTG 192 College Composition 2: Writing and the Ability to Gain Knowledge**
Composition 2 develops the student’s ability to use language for a variety of purposes, subjects, and audiences. It focuses on both exposition and persuasion to strengthen those skills that will assist the student in succeeding academically. In this course, we read and discuss a range of prose models that reflect the diversity of thinking and writing across the disciplines. (4 credits) 
*Prerequisite:* WTG 191 or appropriate assessment

**WTG 193 Supplemental Instruction: College Composition 1**
Students enrolled in this course receive supplemental instruction for College Composition 1, including regular attendance at the Writing Center and scheduled consultations. Additional emphasis on the writing process and metacognition further assists students in developing their writing practice and process to prepare for writing in college courses and beyond. (1 credit) 
*Co-requisite:* WTG 193: College Composition 1 (Fairfield)

**WTG 194 Supplemental Instruction: College Composition 2**
Students enrolled in this course receive supplemental instruction for College Composition 2, including regular attendance at the Writing Center and scheduled consultations. Additional emphasis on the writing process and metacognition further assists students in developing their writing practice and process to prepare for writing in college courses and beyond. (1 credit) 
*Co-requisite:* WTG 194: College Composition 2 (Fairfield)

**WTG 203 Professional Editing: Writing and the Discerning Power of the Intellect**
Most writers will have the opportunity to work as editors at some point in their careers: for a publisher, a business, or through freelancing. The skills students learn in our creative writing program translate well to this profession. However, to be an accomplished editor, a person needs advanced insight into craft and language. In this occupation, it’s essential to quickly be able to assess the quality of a piece of writing and pinpoint what works or doesn’t work. A good editor must have a solid understanding of structure, logic, style and tone—plus the flair to diplomatically convey to writers what the problems are in their work and how these problems can be addressed effectively on both the micro and macro levels. An editor also needs an excellent command of grammar and usage. In this course, students will gain real-world editing experience. Of course, the competence gained from editing the work of others will significantly enhance students’ own writing. (4 credits) 
*Prerequisite:* WTG 192 or consent of the instructor

**WTG 204 Introduction to Poetry Writing: Looking into the Depths of the Ordinary**
This introductory course explores the basic building blocks of craft and technique in poetry—imagery, figurative language, sound devices, rhyme, rhythm, repetition, meter, point of view, and form. Textbook is Frances Mayes’ *The Discovery of Poetry: A Field*
Guide to Reading and Writing Poems. The goal of this course is to introduce students to the world of poetry, to teach them how to effectively read and assess a poem as well as construct their own poetry. This course will help heighten the senses to illuminate the beautiful highlights in the most mundane corners of life and help uncover the lost poems hiding in the attic of the mind. Upon completion, students will have a collection of poems that they will love, cherish, and take with them on their journeys forward. (4 credits) Prerequisite: WTG 192 or consent of the instructor

WTG 206 CCTS Introduction to Rhetoric: Moving Toward Frictionless Flow in Communication Through Examination of the Relationships Between Author and Audience
The discipline of rhetoric concerns itself with both the creation and interpretation of messages and cultural artifacts, emphasizing the value of both seeing another’s perspective and understanding one’s own perspective and self when engaging in the act of communication. Introduction to Rhetoric is a survey course designed to help students move toward frictionless flow in communication through examination of the dynamic relationships between author and audience within their social context. Students will read and discuss articles by prominent thinkers in fields of rhetoric and communications studies such as genre theory, metaphor theory, feminist theory, cultural rhetoric, queer theory, rhetoric of the body, visual rhetoric, ecocriticism, and critical theory and complete a final project that calls on knowledge in the readings to dig deeper into the challenges and possibilities of human communication. (4 credits) Prerequisite: WTG 192 or consent of the instructor

WTG 300 Hidden Figures: Unity through Diversity
This course listens to and celebrates voices and narratives that too often have been marginalized, over-simplified, or silenced in the literary world—whether on the grounds of race, gender, gender identity, sexual orientation, lifestyle choices, immigration status, economic or political status, mental illness, trauma, and/or disability. We will read poets and writers such as Maya Angelou, Chimamanda Ngozi Adichie, Henry L. Gates, Alison Bechdel, David Sedaris, Sandra Cisneros, Li-Young Lee, Joy Harjo, and many more, in order to explore the importance of not viewing life according to “a single story” (Adichie) or limited point of view. In our own writing, we'll explore themes such as loss of speech, erasure of memory, exile from community, loss of identity, stereotyping, and silencing of any kind. Even more, we'll focus on the exhilaration and empowerment of finding back community and voice, inclusivity, the importance of diversity, acceptance, empathy, and interconnection. Instead of “reducing complex human beings and situations to single narrative, taking away people’s humanity,” as Adichie points out, we’ll celebrate how “each individual life contains a heterogeneous compilation of stories.” Students use poems, essays, and stories by established poets and writers as springboards
to tell their own silenced narratives, bringing to life the hidden figures of their personal memories and ancestral histories. Culmination of this course is a written portfolio and participation in a public reading. (4 credits) **Prerequisite:** WTG 192 or consent of instructor

**WTG 303 Women and Contemporary Short Story: Celebrating the Divine Feminine**
In this course, we will examine the contemporary short story and celebrate its talented female authors in the last fifty years. Looking back over the history of fiction, it is far too easy to default to a collection of work, though brilliant, authored primarily by the male spectrum. Alongside these talented gentlemen has been a parallel historical narrative from the minds of brilliant women. We will follow in the footsteps of these women and learn from their creative genius while writing our own collection of short stories. By looking critically at the meaning of voice, short-form plot, character, setting, and other devices, we will gain a deeper understanding of this amazing art form and the role we play as writers in its making. (4 credits) **Prerequisite:** WTG 192 or consent of the instructor

**WTG 304 Poetry and Transcendence: Tracking the Path of Transcending**
Poetry can express the unsayable and touch upon the intangible. Throughout the ages, mystics have used the language of poetry to give voice to longing, devotion, and the exaltation of consciousness. This course focuses on great mystical poets of all time: Lao Tzu, Rumi, Hafez, Mirabai, Lalla, Hadewijch, St. John of the Cross, Romantics Blake and Keats, American visionaries Walt Whitman and Emily Dickinson, and more. The course also explores modern and contemporary poets whose work explores transcendence in subject and/or form—among others Rainer Maria Rilke, Pablo Neruda, Octavio Paz, Thomas Tranströmer, A. R. Ammons, Charles Wright, Tony Hoagland, Pattiann Rogers, and Mary Oliver. Students create a portfolio of their own transcendental poetry, practicing open and traditional forms, including the ghazal, pantoum, villanelle, and chant. Focus is on techniques that evoke transcendental experience—sound devices, repetition, figures of speech—as well as the relationship between words and white space, sound and silence. In this course, students learn to “see into the life of things,” as Wordsworth put it, “with an eye made quiet by the power / of harmony.” (4 credits) **Prerequisite:** WTG 192 or consent of the instructor

**WTG 305 Introduction to Fiction: Capturing Eternity in a Moment**
In this course, we will explore the range of short stories in popular fiction. This means stories that are science fiction, fantasy, romance, crime, and other popular genres. The short story offers the writer the possibility to explore story themes in the short form. This provides the freedom to convey a message, a vision or experiment with ideas without committing to a lengthy manuscript. The short story is a powerful and highly regarded
literary form. Short stories like Edgar Allan Poe's "The Fall of the House of Usher," or Phillip K. Dick’s short story collections, are considered to be outstanding works of art. In this course, we will examine the short story form and also have the opportunity to write short stories in a range of popular genres. (4 credits) Prerequisite: WTG 192 or consent of the instructor

WTG 313 Writing Short Fiction: Creativity Condensed
Edgar Allen Poe once stated that everything in a short story works toward a “single effect.” Economy and precision of language make the short story the perfect narrative form. In this course, we will read and study intriguing stories such as Hemingway’s “Hill’s Like White Elephants,” Grace Paley’s “A Conversations with My Father,” Gabriel Garcia Marquez’s “The Very Old Man with Enormous Wings,” and Eudora Welty’s “Why I Live at the P.O.” as models for short fiction we will write. We will also look closely at elements of fiction: character, structure, point of view, imagery, and figurative language as building blocks for our own stories. Students will write and workshop three short stories during the class. (4 credits) Prerequisite: WTG 192 or consent of the instructor

WTG 320 The Personal Essay: Unifying All Aspects of the Self
The personal essay celebrates heart and mind, exploring age-old questions about the human experience. Students learn the history of the personal essay, reading examples of personal prose discussion in Oriental and classical Literature, then tracing the origins of the modern essay tradition to the European Renaissance with the work of Michel de Montaigne. Students learn about the range and freedom of this brief “formless form” by acquainting themselves with modern and contemporary masters: Mark Twain, Virginia Woolf, Zora Neale Hurston, Jorge Luis Borges, Flannery O’Connor, Annie Dillard, David Sedaris, Dave Eggers, Amy Tan, Mark Spragg, and more. The class also focuses on experimental, contemporary hybrids, tracing the relationship between the personal essay and flash nonfiction, the lyric essay, the “hermit crab” essay, and prose poetry. Students are encouraged to keep a daily journal in which they record memories, observations, insights, and reflections. Students also create a substantial portfolio of at least three personal essays, learning about prewriting, drafting, and revision in the process. Students are encouraged to find a natural, authentic personal voice that is intimate, yet not self-indulgent. In the specificity of personal reflection, it is possible to touch upon the universality of human experience. (4 credits) Prerequisite: WTG 192 or consent of the instructor

WTG 322 The Art of Memoir Writing: Knowing the Self
In this course, students are exposed to childhood memoir, graphic memoir (memoir in cartoon form or illustrated memoir), travel or journey memoir, eyewitness account, lyric
and mosaic memoir, and more. Attention is given to the history of the memoir as well as to experimental techniques and contemporary hybrid forms. Students read selections from memoirs by authors such as Sei Shonagon, Frank McCourt, Janet Frame, Bill Bryson, David Sedaris, Annie Dillard, Shoba Narayan, Anne Patchett, Mark Spragg, and Yang Erche Namu. The main textbook is *Tell It Slant* by Brenda Miller and Suzanne Paola, which explores the craft and technique of memoir writing in-depth. *Old Friend from Far Away* by Natalie Goldberg provides students with useful writing prompts for their journals. Students create their own portfolio—a series of linked or unlinked memoir essays or the opening chapter(s) of a book-length manuscript. Ultimately, students learn to stand back and—in the words of Anaïs Nin—consciously experience their life twice, “in the moment and in retrospection.” (4 credits) *Prerequisite:* WTG 192 or consent of the instructor

**WTG 342 Writing for Children: Children Are the Light of the Universe**

Writing for children can be as rewarding as writing for adults and just as challenging. Children are becoming more sophisticated at younger ages and enjoy reading books at their intelligence level. Students in this class will learn to find the appropriate subject matter, language, tone, and structure for the age group they are addressing. Students will start out writing pieces for preschoolers and early elementary grades and, afterwards, develop more complex narratives for adolescents and young adults. (4 credits) *Prerequisite:* WTG 192 or consent of the instructor

**WTG 344 Creative Process: Curving Back Onto My Own Nature, I Create Again and Again**

In Creative Process, students study their own creative process as well as what artists, writers, and filmmakers have shared about creative inspiration. The purpose of this class is to break boundaries and rediscover an easy relationship with the inner Muse. The primary textbook is *The Artist’s Way* by Julia Cameron. The Syllabus Reader contains material by a wide range of authors such as Annie Dillard, Jorge Luis Borges, Eudora Welty, Ann Patchett, Patricia Hampl, William Saroyan, John Ciardi, Frank Conroy, Virginia Woolf, William Faulkner, Ernest Hemingway, Thomas Wolfe, William Stafford, Rainer Maria Rilke, Lu Chi, Mark Strand, Jane Hirshfield, Billy Collins, Elizabeth Gilbert, plus interviews with great authors by Bill Moyers and material from creativity experts Anne Lamott and Natalie Goldberg. A variety of guest lecturers working in different media will come to the class to discuss their work, career paths, and creative process. Students will keep a daily journal and engage in various creative projects during the course. As a final project, students produce a portfolio and can choose to participate in a group installation/exhibit on creativity. Lab fee: $35 for materials. (4 credits) *Prerequisite:* English, Art, or Cinematic Arts and New Media major, or consent of the instructor
WTG 350 Advanced Poetry Workshop: A Vision of All Possibilities
The poet Victor Hernandez Cruz says, “Poetry gives us revelations, flashes, which illuminate those things which were mysterious to us.” Becoming a great poet has to do with tuning in to your own voice—the rhythm, sound, images, and form of your poems—in a deeply self-referential way. The Advanced Poetry Workshop offers students the opportunity to profoundly hone craft and technique while focusing on a serious body of work. Students will familiarize themselves in-depth with the contemporary canon, using the work of great poets to analyze the precise mechanics of form, line break, punctuation, sound devices, imagery, figurative language, point of view, and more. Textbooks are *The Poet’s Companion: a Guide to the Pleasures of Writing Poetry* by Kim Addonizio and Dorianne Laux and *The Discovery of Poetry* by Frances Mayes. Part of this course is a workshop; students will receive rigorous feedback on their work from peers as well as faculty, since revision and experimentation are a vital component of the mature poet’s process. The final portfolio in this class should be of publishable quality. The procedures for submitting work for publication will be discussed, and at the end of this course, students are required to submit several poems to a literary magazine or contest of choice. The culminating event of the course will be a public reading. (4 credits) Prerequisites: WTG 192, plus WTG 204 or WTG 304 or consent of the instructor

WTG 351 Novel Writing Workshop 1: The Story of Individuality and the Story of Eternity in One Glance
When we read novels, we get lost in unfamiliar or familiar worlds, find new best friends, spend hours with characters we root for, learn from, or who open our eyes to our common humanity, changing our sense of self. But transformation in fiction is not just about story; it’s also about language, imagery, dialogue, innovations in form, and moments of epiphany. This two-block novel writing workshop makes the daunting task of writing a novel approachable. The course starts with short forms (flash fiction and the short story), giving an overview of the fundamentals of fiction (setting, character, plot, point of view, voice, imagery, figurative language). After that, this workshop takes a practical approach, systematically working through specialized techniques of novel writing: How to come up with a book idea that will carry you through for the long haul. How to create memorable, multidimensional, and believable characters that a reader will identify with and root for. How to map out plot and create suspense or profluence, keeping the reader riveted. How to choose point of view and handle complicated POV choices. How to take stories beyond autobiographical writing. How to find motivation to keep going. Students will create storyboards, outline their books, and learn how to pitch and market fiction so it can find its niche audience. All through the block, students will be exposed to the works of a wide variety of prize-winning novelists, whose methods of handling craft and technique will serve as inspiration. Please note that this course’s main focus is adult literary fiction,
though the class is also relevant for those interested in genre fiction, sci-fi, teen fiction, and/or book-length memoir. (4 credits) Prerequisite: WTG 192 or consent of the instructor

WTG 352 Novel Writing Workshop 2: The Story of Individuality and the Story of Eternity in One Glance
(4 credits) Prerequisites: WTG 192 and WTG 351

WTG 360 Writing and Photography: Find the Leaf Swinging in the Song of Life
This course teaches the basics of digital photography and how to write about it. The class will learn how to adjust their photo files in Adobe Photoshop Elements. Students will keep a daily journal of their photographic experiences, learn to photograph and write about the environment, and produce a photo essay on their favorite topic. The course also includes at least one field trip and a variety of creative photography assignments. For the final portfolio, students will select their best photos to enlarge and learn how to print and mat them. The MC department will supply digital cameras for each student. Cell phone cameras are unnecessary and are not allowed. Lab fee: $35 for materials. (4 credits) Prerequisite: WTG 192 or consent of the instructor

WTG 371 Writing to Publish: The Cycle of Action, Achievement, Fulfillment
Writing to Publish is an advanced writing course designed to guide experienced writers through the publication process. This class teaches writers how to acutely edit their work, select a market for their work, and the intricate details about what publishers and editors looking for. Upon completion, students will have submitted several pieces for publication. (4 credits) Prerequisite: WTG 192 or consent of the instructor

WTG 373 Graphic Narrative: Unity through Different Modalities of Perception
Graphic narrative—a genre of literature combining writing and art—has become increasingly popular in the past decades. The term “graphic novel” broadly refers to any fictional or non-fictional story that is told by means of both writing and illustration—often, though not necessarily, in cartoon form. In this class, students will read selections from various award-winning graphic novels and memoirs, among them Logicomix by Apostolos Doxiadis and Christos Papadimitriou, Persepolis by Marjane Sarpoti, and Fun Home and Are You My Mother? by Alison Bechdel, and Principles of Uncertainty by Maira Kalman. Students are expected to write and illustrate their own graphic narratives during the class, studying craft and technique relevant to the genre with help of the textbook Making Comics by Scott McCloud. Lab fee: $35 for materials. (4 credits) Prerequisite: WTG 192 or consent of the instructor
WTG 375 Brief Encounters: Lyrical Impulses of Consciousness
In this course, students will explore the art of flash fiction and create a portfolio of miniature stories (100 to 700 words per story). Flash fiction, once marginal, has now gained mainstream acceptance and is also known as microfiction, microstories, miniatures, short-shorts, short short stories, very short stories, prose poetry, postcard fiction, sudden fiction, and nanofiction. The form takes the popular writer’s adage “less is more” quite seriously, giving students the opportunity to create dynamic, compact, and highly polished jewels in a relatively short space of time. Gesturing toward the transcendent, liberatory capacity of the form, flash fiction exponent Stuart Dybek states, “Within the constraint of their small boundaries the writer discovers great freedom.” Students will read selections from works by famous and lesser-known exponents of the form: Yasunari Kawabata, Gertrude Stein, Lydia Davis, James Wright, Stuart Dybek, Luis Cernuda, Charles Simic, Margaret Atwood, and others. Students will be encouraged to playfully experiment with the form and discover for themselves if it is “rugged enough to adapt itself to the lyrical impulses of the soul, the undulations of the psyche, the prickings of consciousness” as stated by French poet and art critic Charles Baudelaire (1821-1867), a critical founding figure of the form. (4 credits) Prerequisite: WTG 192 or consent of the instructor

WTG 399 Directed Study
In a directed study, students can focus on a project in-depth under faculty guidance. (variable credits) Prerequisites: WTG 192, plus consent of a department chair or the program director; consent of the Academic Standards Committee

WTG 475 BFA Studio 1, 2, 3, and 4: Binding the Boundless
As a culmination of the BFA in Creative and Professional Writing, every BFA candidate enrolls in four consecutive studio courses, which provide concentrated, advanced level immersion in craft. Students receive in-depth, challenging feedback from faculty and peers as they push a body of work toward completion for an end-of-semester public reading. The workshop format hones the ability to critique the work of self and others and offers the opportunity for rigorous revision. Studio classes promote self-reliance as well as intensive self-discipline. Students are encouraged to reach beyond their boundaries, experiment, and keep an open mind. Each Studio block offers master classes diving into the subtle mechanics of technique. Students attend panel discussions where professional poets and writers discuss creative process, the career of the writer, and publication. In the course of four BFA Studios, students will develop a 30 – 50-page portfolio in a genre of choice. Each student works under the guidance of their monthly BFA Studio faculty as well as a board of faculty advisors. Students who want to work in more than one genre need permission from their faculty board. BFA portfolio work should be of publishable quality. Aim is to create a body of work that can be submitted as a portfolio for an MFA
application or for publication to literary magazines and chapbook competitions. The BFA studio provides the perfect preparation for publication and/or graduate work in creative writing, allowing students to try out the professional writing life. (16 credits)

Prerequisites: WTG 192, final semester, plus consent of the department chairs and the program director

Undergraduate Courses: Literature

LIT 265 Evolution of Film: The Transformation of a Genre
This film survey traces the evolution of primarily American and European cinema from the early days of Griffith and Eisenstein through the twentieth and into the twenty-first century. It includes examples of history-shaping movements such as Soviet formalism, German expressionism, French realism, Italian neo-realism, film noir, surrealism, and nouvelle vague. As in LIT 363, we will watch a selection of some of the finest “world masterpieces on film,” including the films of Ford, Bergman, Fellini, and Kurosawa. (4 credits) Prerequisite: WTG 192 or consent of the instructor

LIT 330 Medieval Literature: The Quest for the Self
The period between the fall of Rome and the rise of the European Renaissance is often referred to as the “Dark Ages.” However, it produced some of the greatest literature of all time. In this course we’ll study various great works written between the early Middle Ages and the beginning of the European Renaissance: Beowulf, the greatest warrior epic in the English language and the starting point for written English culture; The Divine Comedy by Dante Alighieri; The Canterbury Tales by Chaucer. We’ll also explore the quest for the Holy Grail, Arthurian Romances of Camelot and the Round Table, the chivalric romance Sir Gawain and the Green Knight, and courtly love poetry, which was at the heart of a spiritual and social renaissance. (4 credits) Prerequisite: WTG 192 or consent of the instructor

LIT 331 Fantasy Literature: The Reality of the Imagination
We live in a time in which the world of fantasy has never been more popular. Everyone is aware of Tolkien’s Lord of the Rings and Rowling’s Harry Potter series, but fantasy literature goes back as far as recorded history. Homer’s The Odyssey is the stuff of pure fantasy, from one fantastic adventure to the next. The same can be said about Norse mythology, Beowulf, and the Arthurian tales of the Middle Ages. One starting point for fantasy is the Gothic stories of the late 18th and early 19th centuries, including Mary Shelley’s Frankenstein. In this course we will attempt to define fantasy, possibly breaking it into sub-genres, examine its core characteristics, and look at the genre historically while leaving time for reading some of the best contemporary fantasy. We may supplement our course with some excellent examples of fantasy from the world of film, time permitting. (4 credits) Prerequisite: WTG 192 or consent of the instructor

2019/20
LIT 335 Shakespeare’s Festival of Comedy: Perfection of Language
Comedy is a discovery of perfection, of harmony, of one’s Self, of an underlying spiritual existence. It is the triumph over adversity, fear, and suffering. It is the celebration of life eternal. In this course, we will examine the nature of comedy and many of Shakespeare’s favorite themes such as love, order, immortality, and right action. Tragedy is the desire to aspire for perfection. Among the plays we will read are Taming of the Shrew, Merchant of Venice, A Midsummer Night’s Dream, As You Like It, Much Ado About Nothing, Twelfth Night, and The Tempest. (4 credits) Prerequisite: WTG 192 or consent of the instructor

LIT 340 Hemingway: The Pursuit of Truth
In the 1920s and 30s, Ernest Hemingway was the most celebrated writer of his age and had an enormous influence on the direction of modern fiction. Hemingway developed a style affected by psychoanalysis that has come to be known as the “iceberg technique,” a stripped-down writing that was meant to be suggestive rather than informative, in which the majority of meaning lay below the lines rather than within them. If his sometime friend F. Scott Fitzgerald chronicled the Jazz Age, Hemingway conveyed the idea of “the lost generation.” In this course, we will read the author’s two best novels—The Sun Also Rises and Farewell to Arms—plus a number of his most famous short stories—“Hills Like White Elephants,” “Soldier’s Home,” “Snows of Kilimanjaro,” “The Short Happy Life of Francis Macomber,” a collection of The Nick Adams Stories—and possibly the memoir A Moveable Feast, a recollection of the expatriate movement in Paris in the 1920s. (4 credits) Prerequisite: WTG 192 or consent of the instructor

LIT 342 The Novels of Jane Austen: The Nature of Love
This course examines the forces that brought the most popular literary genre of modern times—the novel—into being. Jane Austen is hailed by her legions of admirers the greatest novelist in the English language. Austen wrote at the time when long literary works were taking on a definite shape that came to be known as the novel, a name that suggests the newness of the form. In this course we will read Austen’s three best novels, Pride and Prejudice, Emma, and Persuasion, and we will look closely at those characteristics that shaped the most popular form of literature for going on three centuries. (4 credits) Prerequisite: WTG 192 or consent of the instructor

LIT 348 Modern British Literature: Of Time and Timelessness
“Make it New!” was the clarion cry of a whole generation of writers at the turn of the twentieth century. Poets, novelists, and dramatists all wanted to break with a past they saw as corrupt and outdated. Everything concerning content and form was up for grabs. These explorers of the imagination began to investigate the previously uncharted
dimensions of linguistic possibilities. One of their first choices was to take the attention of their audiences within. Modern European writers in all genres developed new literary techniques to express the deeper realities of consciousness at the basis of thought and human behavior. Combating the forces of urbanization, isolation, industrialization, and the decline of religion, such modern novelists as Forster, Woolf, Lawrence, and Joyce, and such poets as the French Symbolists, Yeats, Eliot, Thomas, and Auden took refuge in a transcendental vision of life. (4 credits) Prerequisite: WTG 192 or consent of the instructor

**LIT 351 Modern American Literature: Transcending Boundaries**
Reacting to the prosaic objectivism of the realist movement, the decline of Western spirituality, and the moral excess of the industrial revolution and European imperialism, a new movement in the arts called Modernism attempted to take the individual back to the spiritual source of the Transcendentalists and its Oriental transcendental roots. Leaders in this movement included Fitzgerald, Hemingway, Faulkner, Steinbeck, and Cather in fiction, and Frost, Eliot, Williams, Stevens, Moore, and Hughes in poetry. (4 credits) Prerequisite: WTG 192 or consent of the instructor

**LIT 355 Asian Literature: The Spiritual Language of the East**
Students will study literature from Eastern and/or Middle Eastern countries, including China, Japan, and Persia (Iran). Emphasis will be on those writers and texts that possess a profound understanding of spirituality or deep human values. Works may include Lao Tsu’s *Tao de Ching*, the writings of Chuang Tze, the Confucian Odes, T’ang poetry, the poetry of Kabir, Tagore, Rumi, and Hafiz. Novelists may include Murakami, Kawabata, Mishima, and Narayan. (4 credits) Prerequisite: WTG 192 or consent of the instructor

**LIT 356 Contemporary Fiction: The Consciousness of the Here and Now**
Over time, the artistic output of a specific generation gets codified and becomes representative of a generation. For example, Emerson, Thoreau, Poe, Hawthorne, and Melville became known as the foremost writers of American Romanticism in the mid-19th Century. In the contemporary world, who will come to represent the first decades of the 21st century has yet to be determined. However, in this course, we will explore a number of writers who we may call the voices of the New Millennium, writers who speak in a language closest to our own. (4 credits) Prerequisite: WTG 192 or consent of the instructor

**LIT 357 The Hero in Literature: Acting According to Nature**
This course will explore the idea of the hero from antiquity to the present. The hero is a larger-than-life character whose actions affect the fate of a large community for good, or if a tragic hero, for ill. The hero’s behavior (see Arjuna for example) is a model for the
ordinary individual. One of the great debates is whether the hero can even exist in the modern world. Among the texts and themes we will look at are: *The Odyssey*: The Classical Hero; *Beowulf*: The Germanic Hero; *Sir Gawain and the Green Knight*: The Medieval Hero; *Siddhartha*: The Spiritual Hero; and *The Bean Trees*: The Feminine Hero. (4 credits) **Prerequisite:** WTG 192 or consent of the instructor

**LIT 363 CCTS Film as Literature: The Image as Truth**
Stories are as old as time, and they are told in every language from every culture. They are also found in different genres: the novel, the short story, drama, and narrative poetry, each with its own variety of techniques. Film is another narrative form also with its distinct language and its own technical forms. And just as we study plot, character, setting and point-of-view to better understand the craft and meaning of fiction, we study the use of light, the variety of shots, camera angles, and the *mise-en-scène* to understand the visual language of film. We also examine the contributions of the co-creators of a film: the screenwriter, the director, the cinematographer, the producer, the set designer, and the actors, to name a few. In this course we will focus on films from the last decades of the 20th century and those from the present century, including *Run Lola Run, Road to Perdition, Volver, The Descendants, White, Moonrise Kingdom, Stranger than Fiction, Three Billboards, The Shape of Water*. We will also sample a few films by some of the world’s great directors from the golden age of cinema. (4 credits) **Prerequisite:** WTG 192 or consent of the instructor

**LIT 368 Contemporary Film: The Creativity of the Present**
In this course we will watch a set of excellent films from the past three decades. Our focus will be on what makes a film art and not simply entertainment. We will regularly use standard film techniques and their variations, such as lighting, camera angles, mise-en-scène, and movement in discussing films, but we will also closely examine specific scenes to more deeply understand how films tell stories visually. We will consider such narrative elements as beginnings and endings, foreshadowing, character development, point-of-view, symbolic patterning. Some of the films we will watch may include: Wes Anderson’s *Moonrise Kingdom*, Yimou Zhang’s *House of Flying Daggers*, Krzysztof Kieslowski’s *Red*, Pedro Almodovar’s *Women on the Verge of a Nervous Breakdown*, Jean-Pierre Jeunet’s *Micmacs*, Alexander Payne’s *The Descendants*, The Cohen Brothers’ *O’ Brother, Where Art Thou?*, Tom Twyker’s *The Princess and the Warrior*, Jim Jarmusch’s *Ghost Dog*, and Luc Besson’s *Lucy*. (4 credits) **Prerequisite:** WTG 192 or consent of the instructor

**LIT 371 The Lord of the Rings: Unity in Diversity**
In the first half of the twentieth century, J.R.R. Tolkien, an Oxford Medieval and Linguistics Professor, wrote one of the great epics of modern times. *The Lord of the
Rings has become a literary phenomenon, a critical success, a cult classic, and an enormously popular novel sequence that has never fallen out of favor. Moreover, it has spawned a subsidiary industry that includes films, TV productions, games, toys, and LOR art. The Lord of the Rings has emerged as the quintessential fantasy/myth to which all modern myths pay homage, an archetypal tale that speaks to the heart of human beings on the very meaning and purpose of life. In this course, we will read the trilogy: The Fellowship of the Ring, The Two Towers, and The Return of the King. We will also consult the prequels to the trilogy, The Silmarillion and The Hobbit. When appropriate, we will look at scenes from Peter Jackson’s famous film sequence. (4 credits)

Prerequisite: WTG 192 or consent of the instructor

LIT 380 Seminar on Special Topics
Periodically, seminars on special topics are offered by visiting professors or resident faculty. This course may be repeated subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course. (4 credits) Prerequisite: WTG 192 or consent of the instructor

LIT 499 Directed Study in Literature
In a directed study in literature, students can explore a research topic in-depth under faculty guidance. The faculty mentor designs and agrees to the assignments, readings, and course content. (variable credits) Prerequisites: WTG 192, plus consent of the department chairs and the program director, plus consent of the Academic Standards Committee

Graduate Courses

In-residency courses are marked with an asterisk and taught on the MUM campus. All other courses are taught online.

Residencies

The first residency starts with the heart of writing—the creative process itself. Poet Alan Shapiro said that writing allows us to focus on the “right here, right now, the deep joy of bringing the entire soul to bear upon a single act of concentration. In that extended moment, opposites cohere: the mind feels and the heart thinks, and receptivity is a form of fierce activity. Quotidian distinctions between mind and body, self and other, space and time, dissolve.” This class explores the inner world of the imagination and techniques to access the leaping mind. It asks questions such as: How do you break through writer’s block and nourish creativity? Why is it essential to give yourself permission to
experiment and make mistakes? Where do you find inspiration and how do you develop the healthy work habits of the professional poet/writer? There will be guest lectures about Bly’s poetics of the deep image and Lorca’s theory and play of duende—not labor, but the fuel of passion pulsing through a work. Guest faculty offer evening readings, teach master classes on various aspects of craft, and lead advanced workshops in three genres. Students also receive an orientation to the writing life—the profession of the poet or writer. (Required, 2 credits)

**CW 502 Residency 2*: Advanced Narrative—Transformational Storytelling in Fiction, Creative Nonfiction, and Poetry: The Story of Individuality and the Story of Eternity in One Glance**

The second residency explores the role of storytelling in fiction, creative nonfiction, and poetry. In seminars, craft classes, panel discussions, and writing exercises, students explore the fundamentals of narrative—including character, plot, point of view, theme, style, and voice—with a special emphasis on transformational storytelling, the quest motif, and approaches to crafting works of lasting value. Master classes may cover the narrative poem; profluence in lyric prose; the fictionalized memoir; outlining, storyboarding, and the story arc; the Hero/Heroin’s Quest; how to develop a longer work (novel, memoir, or graphic novel); writing from life experience; and more. Guest faculty offer evening readings, teach master classes on various aspects of craft, and lead advanced workshops in three genres. (Required, 2 credits)

**CW 503 Residency 3*: Unwrapping Form—Lyric Association, Braiding, Borrowing, and Experimentation: Taking Fullness from Fullness, What Remains Is Fullness**

The third residency explores form and the unwrapping of form in the genres of poetry, fiction, and creative nonfiction. Seminars and craft classes cover topics such as hybrids; borderlands between genres; fixed form versus open form poetry; graphic memoirs; sources and approaches; and profluence through association and theme. This residency also includes workshops on line break; Japanese minimalism and the image; the contemporary narrative poem; the lyric memoir or novella; and the lyric essay (including prose poem, braided essay, collage, and hermit-crab essay). Panels will be on the topics of experimentation, crossing genre, and breaking form. Guest faculty offer evening readings, teach master classes on various aspects of craft, and lead advanced workshops in three genres. (Required, 2 credits)

**CW 504 Residency 4*: The Writing Life: Turning Imagination into Reality**

The fourth residency is named after Annie Dillard’s famous text about the life of the writer, a mandatory addition to every student’s reading list. What do poets and writers have to say about the writing life? In seminars, panel discussions, and workshops, poets
and writers talk about their writing routine and creative process, giving students pointers for success. Students learn basics about journal and book publication, conference attendance, and career strategies. This residency includes a panel on cutting-edge developments in the publishing industry and the future of book publishing; a panel with agents and publishers (pending availability); a seminar on the value of corporate versus independent publishing houses; a workshop in book proposal writing; and several seminars and workshops on how to organize book-length manuscripts of poems, short stories, flash pieces, or essays into a cohesive collection. Guest faculty offer evening readings, teach master classes on various aspects of craft, and lead advanced workshops in three genres. (Required, 2 credits)

**CW 505 Residency 5*: The Journey from Writer to Author: The Celebration of Action, Achievement, and Fulfillment**

This capstone residency for graduating students discusses the journey of taking ideas from vision to fully realized books. Seminars and panel discussions deal with the questions that lie ahead after graduation: How do you carve out a career as a writer? How do you develop and finish your books? How do you find an agent and publisher? How do you deal with bills or rejections and still keep writing? How do you believe enough in yourself and your voice to birth your books into print? How do you market yourself once you have landed a publishing contract? The fifth and final residency offers a bolstering package of support for the writer embarking on the world. Graduating students teach a master class, give a public reading from their thesis, and celebrate their achievements. (Required, 2 credits)

**Online Courses**

**CW 533 Every Page a Pulse—Nurturing the Unimaginable and Saying the Unsayable: Finding the Self Nearer than Breath, than Heartbeat** (Mundaka Upanishad)

This online course is designed to deepen creative process, exploring the leaping imagination and the ineffable force at the heart of all great writing. Seminars and writing assignments examine Bly’s poetics of the deep image, Rilke’s idea of the combinatorial nature of creativity, and Lorca’s “Theory and Play of the *Duende,*” teaching students how to mine rich and complex material that is “in their veins” and “surges up from the soles of their feet.” It includes exercises to help students write in an authentic voice and seminars covering subjects such as writing about childhood, nature writing, the relationship between memory and time, metaphorical thinking, shifting and expanding point of view, witnessing and point of view, and the I/eye of poem or story. It also touches on the transformational power of myth. (Required, 2 credits)
CW 541 Writing Pedagogy — The Theory of Teaching Creative Writing: Integrating Subjective and Objective Reality
This online course explores the theory, practice, and art of teaching creative writing, offering a theoretical and historical background to different conventional and cutting-edge pedagogies from the fields of creative writing and composition studies, examining innovative models of teaching creative writing not limited to the workshop model. Central is creative process and the idea of writing and language as a means of personal expression. Students learn how to integrate the six levels of Bloom’s taxonomy in sample assessments and rubrics of learning objectives and outcomes. They create lesson plans and a syllabus, study methods of grading, plus structure a master class on a craft-related subject, which they will teach during the final (5th) residency of the program. Students are also required to write a statement of teaching philosophy. All of these materials are submitted in a Writing Pedagogy Portfolio. (Required, 2 credits)

CW 542 The Socially Conscious Writer — Writing Outreach: Finding Unity in Diversity
Poets and writers are the voice of the future. They have the power to transform and create community through empathy and inclusivity; they can bring about positive change in the world. However, perspective narrows if a writer views life through a singular, limited point of view (“the danger of the single story,” as novelist Chimamanda Adichie calls it). This online course explores ethical dilemmas and social values in the literary arts, stimulating social awareness and engagement. Themes include loss of voice and identity, erasure of memory, and exile from community. The class also teaches the value of listening to and celebrating marginalized voices; the empowerment of finding back voice and community; being an eye-witness, bearing witness, and developing witnessing by being rooted in the Self; the importance of adopting diverse perspectives as a poet/writer; and writing as a means to bring about healing and transformation. Culminating project is a writing outreach, where students have the opportunity to use their skills in service of a cause they believe in in their home communities. This outreach can serve as an internship or teaching practicum. (Required, 2 credits)

This online course orients students to the profession of the poet/writer, covering such issues as work habits; the art of organizing and assembling a book; journal and book publication; job hunting; interviewing; the art of networking; and professional presentation through CVs, query letters, cover letters, pitching, and/or book proposals. How can you finish your books while paying your bills? What smart strategies do professional poets/writers recommend in creating fulfilling careers in writing? In this
class, students write a marketing plan for their thesis as a finished book. (Required, 2 credits)

**CW 544 The Writer Online—Social Media Marketing and Strategies: A Vision of Unbounded Possibility**

In today’s global world, writers have to know how to create a strong online platform so they can market themselves and their work effectively. This course teaches in-demand and innovative social media marketing skills and strategies that will promote career growth. The course gives an overview of habits, trends, and evolution in social media communications. Students are stimulated to think strategically so that they can mine creative opportunities. Lectures, discussions, and exercises focus on authentic communication, creating content, digital storytelling techniques, blogging, and branding. Students also learn technical skills such as website building, how to write content that performs well in social media, social analytics, viral campaigns, and how to elicit social media engagement. Final project is an Online Portfolio that includes a website, online CV, various social media pages, and samples of (published) work. (Required, 2 credits)

**Note on Mentorships:**

*Advanced Creative Writing Mentorships (CW) and Advanced Process Mentorships (LIT) in the same genre are complementary co-requisites taught by the same mentor. Co-requisite classes in CW and LIT have the same number. Students take mentorships in their chosen genre(s) of emphasis and are only allowed to enroll in elective mentorships with the permission of the MFA Program Director.*

**CW 560 Advanced Poetry Mentorship: Cultivating the self and Self of the Poet**

This intimate Advanced Creative Writing Mentorship offers full immersion in the craft and technique of poetry. Students write original poems and receive intensive feedback in one-on-one mentorship and online workshops with the aim of revising their work in-depth. The course is tailored to each student’s specific needs and may emphasize closed and/or open form poetry, cross genre hybrids, experimental and/or long form poetry, or whatever a student wishes to explore. Students submit four packets of work (new writing and revisions) per semester. Weekly or biweekly online craft classes cover subjects such as the deep image; metaphoric thinking; the art of line break; rhythm, repetition and/or metrics; unwrapping form; and more. Students work on their thesis project unless the mentorship is an elective. Poetry students can repeat this course. (4 credits) *Co-requisite: LIT 560, a complimentary Advanced Process Mentorship in the same genre.*

*Prerequisite:* Students take mentorships in their chosen genre(s) of emphasis and are only allowed to enroll in elective mentorships with permission of the MFA Program Director
CW 561 Advanced Fiction Mentorship: Cultivating the self and Self of the Fiction Writer
This intimate Advanced Creative Writing Mentorship offers full immersion in the craft and technique of fiction. Students write original fiction and receive intensive feedback in one-on-one mentorship and online workshops with the aim of revising their work in-depth. The course is tailored to each student’s specific needs and may emphasize short story, flash fiction, novel, novella, and/or speculative fiction. Students submit four packets of work (new writing and revisions) per semester. Weekly or biweekly online craft classes cover subjects such as voice, setting, character, flashbacks, the art of dialogue, the narrative arc, multiple points of view, outlining, and more. Students work on their thesis project unless the mentorship is an elective. Fiction students can repeat this course. (4 credits) **Co-requisite:** LIT 561, a complimentary Advanced Process Mentorship in the same genre. **Prerequisite:** Students take mentorships in their chosen genre(s) of emphasis and are only allowed to enroll in elective mentorships with permission of the MFA Program Director

CW 562 Advanced Creative Nonfiction Mentorship: Cultivating the self and Self of the Nonfiction Writer
This intimate Advanced Creative Writing Mentorship offers full immersion in the craft and technique of creative nonfiction. Students write original creative nonfiction and receive intensive feedback in one-on-one mentorship and online workshops with the aim of revising their work in-depth. The course is tailored to each student’s specific needs and may emphasize flash nonfiction, personal essay, and/or memoir. Students submit four packets of work (new writing and revisions) per semester. Weekly or biweekly online craft classes cover subjects such as hybrids, the lyric essay, drawing upon life experience, fictionalizing personal stories, setting, character, the art of dialogue, the narrative arc, profluence, flashbacks, framed stories, and more. Students work on their thesis project unless the mentorship is an elective. Creative nonfiction students can repeat this course. (4 credits) **Co-requisite:** LIT 562, a complimentary Advanced Process Mentorship in the same genre. **Prerequisite:** Students take mentorships in their chosen genre(s) of emphasis and are only allowed to enroll in elective mentorships with permission of the MFA Program Director

CW 563 Advanced Multi-Genre Mentorship: Cultivating the self and Self of the Poet/Writer
This intimate Advanced Creative Writing Mentorship offers full immersion in the craft and technique of multiple genres. Students create original cross genre or multi genre work and receive intensive feedback in one-on-one mentorship and online workshops with the aim of revising their work in-depth. Students submit four packets of work (new writing and revisions) per semester. Weekly or biweekly online craft classes are tailored
to each student’s specific needs with the aim of stimulating the student’s creative work. The purpose of the Multi Genre Mentorship is to give students room to explore unfamiliar and/or complimentary genres. Students develop an appreciation of the three core genres and an understanding of how these genres can cross-fertilize and intersect. Dual genre students can take this mentorship multiple times in order to work on their thesis project. For other students, the Multi Genre Mentorship presents an opportunity to stretch boundaries and explore new possibilities as an elective. (4 credits) Co-requisite: LIT 563, a complimentary Advanced Process Mentorship in Multiple Genres. Prerequisite: Students take mentorships in their chosen genre(s) of emphasis and are only allowed to enroll in elective mentorships with permission of the MFA Program Director.

CW 593 Advanced Creative Writing Mentorship—MFA Thesis: The Self-Realization of the Poet/Writer
In the fourth semester of study, all students enroll in the MFA Thesis, a semester of advanced mentorship designed to complete the MFA thesis, a book-length manuscript of publishable quality. Students work one-on-one with their mentors, participate in intensive workshops, and engage in in-depth revision to finalize their drafts. Students are required to submit four packets of work during the semester. The MFA Thesis is always in the student’s genre of emphasis (dual genre for approved students only). This course can be repeated as “Extended MFA Thesis” in a fifth semester of study. (Required, 4 credits) Co-requisite: LIT 593: Writing a Critical Introduction to the MFA Thesis

CW 594 Advanced Creative Writing Mentorship—Extended MFA Thesis: The Self-Realization of the Poet/Writer
For students who need extra time and support to complete their thesis, we offer the Extended MFA Thesis mentorship. Dual genre students may opt to enroll in the Extended MFA Thesis in order to immerse more deeply in their second genre of emphasis. Extended MFA Thesis is the same course as the MFA Thesis but may be taught by different mentor. It can only be taken in the 5th (or sometimes the 6th) semester of the program and is an elective. (4 credits) Prerequisites: CW 593: MFA Thesis and LIT 593: Writing a Critical Introduction to the MFA Thesis

LIT 534 Literary Theory for the Creative Writer: The Whole Is Greater than the Sum of Its Parts
This online course explores the ways that literary theory and analysis are intrinsically relevant to the field of creative writing, enriching discussion, the workshop experience, and creative work. The class covers interpretation, authorial intention vs. reception and reader response, textuality and intertextuality, as well as assumptions about language and the manifold aspects of self and identity. Aim is to give insight into the history of literary traditions and help students examine through different lenses the genre(s) in which they
themselves write, offering wider context. An in-depth examination of identity in poetry and prose questions social conditioning and assumptions. The course also looks at teaching methodologies of writing influenced by literary theory. (Required, 2 credits)

**LIT 560 Advanced Process Mentorship in Poetry: A Vision of All Possibilities**
This course focuses on reading and craft analysis in the genre of poetry in support of a student’s creative work. In each monthly packet submitted to the mentor, students are required to include a bibliography, annotations in response to about half to a third of the readings, and an analysis essay exploring craft in a literary work. By the end of a semester, students will have compiled a reading list of 10 – 20 titles relevant to their own writing process. There are four packet exchanges with the mentor per semester. Poetry students can repeat this course. (2 credits) *Co-requisite: CW 560, a complimentary Advanced Creative Writing Mentorship in the same genre. Prerequisite: Students take mentorships in their chosen genre(s) of emphasis and are only allowed to enroll in elective mentorships with permission of the MFA Program Director*

**LIT 561 Advanced Process Mentorship in Fiction: A Vision of All Possibilities**
This course focuses on reading and craft analysis in the genre of fiction in support of a student’s creative work. In each monthly packet submitted to the mentor, students are required to include a bibliography, annotations in response to about half to a third of the readings, and an analysis essay exploring craft in a literary work. By the end of the semester, students will have compiled a reading list of 10 – 20 titles relevant to their own writing process. There are four packet exchanges with the mentor per semester. Fiction students can repeat this course. (2 credits) *Co-requisite: CW 561, a complimentary Advanced Creative Writing Mentorship in the same genre. Prerequisite: Students take mentorships in their chosen genre(s) of emphasis and are only allowed to enroll in elective mentorships with permission of the MFA Program Director*

**LIT 562 Advanced Process Mentorship in Creative Nonfiction: A Vision of All Possibilities**
This course focuses on reading and craft analysis in the genre of creative nonfiction in support of a student’s creative work. In each monthly packet submitted to the mentor, students are required to include a bibliography, annotations in response to about half to a third of the readings, and an analysis essay exploring craft in a literary work. By the end of the semester, students will have compiled a reading list of 10 – 20 titles relevant to their own writing process. There are four packet exchanges with the mentor per semester. Creative nonfiction students can repeat this course. (2 credits) *Co-requisite: CW 562, a complimentary Advanced Creative Writing Mentorship in the same genre. Prerequisite: Students take mentorships in their chosen genre(s) of emphasis and are only allowed to enroll in elective mentorships with permission of the MFA Program Director*
LIT 563 Advanced Process Mentorship in Multiple Genres: A Vision of All Possibilities
This course focuses on reading and craft analysis in multiple genres in support of a student’s creative work with particular emphasis on the borderlands between genres, including cross genre and hybrid work. This course stretches boundaries, inspires new ideas, encourages experimentation, and gives students the opportunity to explore genres that are unfamiliar. In each monthly packet submitted to the mentor, students are required to include a bibliography, annotations in response to about half to a third of the readings, and an analysis essay exploring craft in a literary work. By the end of the semester, students will have compiled a reading list of 10 – 20 titles relevant to their own writing process. There are four packet exchanges with the mentor per semester. Dual genre students can repeat this course. (2 credits) Co-requisite: CW 563, a complimentary Advanced Multi Genre Mentorship. Prerequisite: Students take mentorships in their chosen genre(s) of emphasis and are only allowed to enroll in elective mentorships with permission of the MFA Program Director

LIT 573 Advanced Literature Mentorship
For students who want an additional literature credit on their transcript in preparation for a teaching job in a university or community college English department, we offer an elective literature mentorship in the 5th semester that involves one-on-one immersion in a subject of choice. (2 credits) Prerequisite: LIT 593: Writing a Critical Introduction to the MFA Thesis, plus permission of the MFA Program Director as well as Professor Terry Fairchild, co-chair of the Dept. of English: Creative Writing and Literature

LIT 593 Advanced Process Mentorship—Writing a Critical Introduction to the MFA Thesis: Self-Referral Integration of Imagination and Intellect
In the fourth semester of study, the Advanced Process Mentorship fully supports the completion of the MFA thesis. Instead of craft analysis and critical essays, students write a critical introduction to their thesis, giving their creative process and craft choices a literary and scholarly context. Students are expected to refer to ideas and techniques discussed in The Flow of Consciousness to enrich their explications. In each monthly packet, students include a draft of their introductions, then use mentor feedback for revision. The final draft should include MLA citations and a Works Cited page. (Required, 2 credits) Co-requisite: CW 593: MFA Thesis
DEPARTMENT OF ENGLISH AS A SECOND LANGUAGE

FACULTY

• Mark Ellinghaus, MA, Instructor of ESL, Director of the Intensive English Program

INTRODUCTION

The mission of the MUM English as a Second Language (ESL) program is to help students, professionals, and other interested adults quickly and efficiently improve their English language skills and cultural awareness in preparation for academic study, professional success, or for other personal reasons.

The program follows the innovative and effective Focal Skills Approach to English language acquisition. The Focal Skills Approach allows language skills to build on one another naturally in a series of sequenced learning modules. There are four learning modules: Focus on Listening, Focus on Reading, Focus on Writing, and Advanced Integration. Students are tested upon entry into the program and then placed in the module best suited to their current level of English. Students are retested every four weeks and given the opportunity to advance to the next module.

Students usually spend from one to four months in each module. In this way, they develop their English language ability based on a solid foundation of previously acquired skills. Students may also skip a module if their placement test score indicates that special focus on that language skill is not necessary. Students who complete the advanced module sequence have achieved a high level of English language competency and are ready to begin academic study or to live and work in an English-speaking environment.

DEPARTMENTAL REQUIREMENTS

Entrance Requirements for the Certificate in English as a Second Language

To apply to the program, students must possess a high school diploma or its equivalent in their native country. Proof of some prior study of English as a second language, such as the typical classes found in most school systems, is also required. Admission to the ESL program does not constitute admission to MUM academic programs, which must be applied to separately.
Graduation Requirements for a Certificate in English as a Second Language

The minimum length of study in the ESL program is three months. Students receive a Certificate of Study for each 12-week session successfully completed in the program. Students who successfully complete 12 weeks of study at the Advanced level will receive a Certificate of Completion of the MUM English as a Second Language program.

Undergraduate Elective Credit

Students accepted into MUM’s undergraduate degree program and who are required to enroll in English language classes prior to beginning their undergraduate studies may receive up to 12 credits of electives for successful completion of the Advanced level courses.

See program website for more information: www.mum.edu/esl.

COURSES

ESL 001 English as a Second Lang Orientation
During the Orientation to ESL, students explore all aspects of MUM's ESL program. Each student's skill in reading, listening, writing and speaking is thoroughly tested. These test results, along with a consideration of the student's interests and English learning goals are used to customize and put into practice an individual learning plan that will guide the student during the following weeks and months in ESL. This ensures that each student reaches his or her English learning goals as quickly and efficiently as possible.

ESL 011 Module 1 — Focus on Listening 1
ESL 012 Module 1 — Focus on Listening 2
ESL 013 Module 1 — Focus on Listening 3
ESL 014 Module 1 — Focus on Listening 4
Students are exempt from this module if they receive a comprehension score of 60 or higher on the listening placement test.

During this module, students dedicate most of their class and study time to improving their ability to understand normal spoken English using classroom exercises, movies and audio books. They also improve their reading and speaking abilities during this module. Students repeat this module until they achieve a comprehension score of 60 or higher on the listening placement test. Prerequisite: Admission to the MUM ESL program
ESL 021 Module 2 — Focus on Reading 1
ESL 022 Module 2 — Focus on Reading 2
ESL 023 Module 2 — Focus on Reading 3
ESL 024 Module 2 — Focus on Reading 4
Students skip this module if they receive a comprehension score of 60 or better on the reading placement test.

Students entering this module have demonstrated that they have achieved an intermediate level of listening skill and are ready to focus on further development of their reading skill in English. This includes the expansion of their English vocabulary, the development of reading speed and fluency, and the skills and strategies needed to build a complete and accurate understanding of what is read. Classroom discussions of the reading materials and supplementary assignments also contribute to the continued development of listening and speaking skills. Students repeat this module until they achieve a comprehension score of 60 or better on the reading placement test. Prerequisite: a comprehension score of 60 or higher on the listening placement test.

ESL 031 Module 3 — Focus on Writing 1
ESL 032 Module 3 — Focus on Writing 2
ESL 033 Module 3 — Focus on Writing 3
ESL 034 Module 3 — Focus on Writing 4
Students skip this module if they receive a score of 70 or better on the writing placement test.

Students entering this module have attained an intermediate level of listening and reading ability. The purpose of this module is to develop the student’s ability to write clear, grammatically correct sentences and paragraphs in English. While this is not a composition class, the basic elements of good writing are discussed and practiced. Students continue to develop their vocabulary, reading, listening, and speaking abilities in this class. Students repeat this module until they achieve a passing score of 70 on the writing placement test. Depending on enrollment, this module and the reading module may be combined into a single class. Prerequisite: a comprehension score of 60 on the listening and reading placement tests.
ESL 041 Module 4 — Advanced Integration 1
ESL 042 Module 4 — Advanced Integration 2
ESL 043 Module 4 — Advanced Integration 3
ESL 044 Module 4 — Advanced Integration 4

In the advanced module, students combine the skills of reading, listening, writing, and speaking, to develop the level of advanced English and cultural awareness necessary to achieve success in their future academic classes, in a business environment, or in life. Through the use of authentic materials, students refine their ability to understand college-level lectures, academic and business presentations, and to read and comprehend college textbooks and newspapers, write college-level essays and official correspondence, give effective presentations, and actively participate in discussions on professional and academic topics.

The number of months a student spends in this module depends on a student's goals. Students who wish to apply to one of MUM's academic programs should refer to the English level requirements for their particular program. Prerequisites: a score of 60 or better on the listening and reading tests and a score of 70 or better on the writing placement test.
College of Maharishi Vedic Science

DEPARTMENT OF MAHARISHI VEDIC SCIENCE

FACULTY

• William Sands, PhD, Professor of Maharishi Vedic Science and Sanskrit, Dean of the College of Maharishi Vedic Science
• Fred Travis, PhD, Professor of Maharishi Vedic Science, Chair of the Department of Maharishi Vedic Science, Dean of the Graduate School, Director of the Center for Brain, Consciousness, and Cognition
• Karen Aoki, PhD, Assistant Professor of Maharishi Vedic Science
• Sue Brown, PhD, Associate Professor of Maharishi Vedic Science
• Rod Eason, PhD, Assistant Professor of Maharishi Vedic Science, Vice President of Enrollment and Student Life
• Peter Freund, PhD, Assistant Professor of Maharishi Vedic Science, Director of the Tape Library
• Johan Svenson, PhD, Assistant Professor of Maharishi Vedic Science, Director of Global Solutions
• John Collins, MA, Adjunct Professor of Maharishi Vedic Science
• Thomas Egenes, PhD, Adjunct Professor of Maharishi Vedic Science and Sanskrit
• John Greco, PhD, Adjunct Professor of Maharishi Vedic Science
• Viji Hobbs, PhD, Adjunct Professor of Maharishi Vedic Science

INTRODUCTION

The College of Maharishi Vedic Science provides the systematic knowledge and experience of pure consciousness, Ātma, the Self of every individual, as brought to light by Maharishi Mahesh Yogi. This unmanifest self-referral field of pure intelligence at the basis of the thinking process is the source of all thought and action. As explained in the Veda and Vedic Literature and confirmed by modern physics, it is the non-changing field of order and intelligence at the basis of the universe — the unified field of natural law. Maharishi Vedic Science explains how this underlying unity unfolds into the diversity of life and offers practical technologies for reconnecting each individual to the source of order and harmony within. The study of Maharishi Vedic Science develops the full potential of the knower and lays the foundation for complete knowledge of any discipline, while it fosters evolution to higher states of consciousness and progressive and
fulfilling action and accomplishment in life. The College of Maharishi Vedic Science meets its responsibilities in three ways:

1) Through the Department of Maharishi Vedic Science, it offers bachelor’s, master’s, and doctoral degrees and an undergraduate minor in Maharishi Vedic Science. It also offers undergraduate and post-graduate certificates in Maharishi Vedic Science.
2) In addition, the College offers instruction in the Transcendental Meditation and TM-Sidhi programs, and special Maharishi Vedic Science studies programs.
3) The College also directly oversees the following courses and programs:
   • The Science and Technology of Consciousness course taken by all bachelor’s degree students
   • The Forest Academy program courses taken by all students each semester, focusing deeply on Maharishi Vedic Science
   • The Transcendental Meditation and TM-Sidhi programs, including Yogic Flying. All students are required to take the Transcendental Meditation program and have the option to take the TM-Sidhi program

Maharishi Vedic Science
Maharishi Vedic Science is the systematic study, experience, and development of the full range of life, both individual and cosmic. Its principles and technologies are based on the direct experience and understanding of the most vital element in creation — the unbounded field of consciousness that is the inner intelligence at the basis of every individual and the entire universe.

Maharishi Vedic Science provides the practices that allow each student to experience directly the infinite and timeless value of their own Self, unbounded pure consciousness, the simplest form of human awareness. These practices include the Transcendental Meditation and TM-Sidhi programs, including Yogic Flying. The experience of the limitless field of pure consciousness, or pure intelligence, changes one’s life positively and dramatically because consciousness is the core of each student.

Maharishi Vedic Science also provides complete knowledge and experience of the sequential evolution of the Veda and Vedic literature, all the laws of nature. It clarifies how these abstract impulses of pure consciousness evolve into their concrete expressions in the human physiology and the cosmic physiology, the universe. Because the Veda and Vedic literature are the laws of nature that govern both human and cosmic life, they are what Maharishi refers to as the blueprint of creation.
Maharaja Adhiraj Rajarām (Tony Nader, MD, PhD), under Maharishi’s guidance, has discovered that human physiology and cosmic physiology are the exact replica of the structures and functions embodied and expressed by the Veda and Vedic literature. Maharishi Vedic Science makes use of this discovery to unfold the full creative genius, the total cosmic potential, of each student.

Two other Vedic technologies used in our programs for developing the full potential of every student are listening to the Veda and Vedic literature and reading the Vedic literature in Sanskrit. Maharishi explains that these technologies align the student’s intelligence with the natural flow of nature’s intelligence.

In time, because of the student’s developing consciousness, the creativity, energy, and intelligence governing the universe become accessible to and usable by the student. Students effortlessly grow in their natural ability to think and behave from that unbounded level of pure consciousness; they grow in intelligence, creativity, and power, but equally in compassion, kindness, and moral character.

The immense practical value and benefits of being able to live life from its infinite potential are indescribable. Anything becomes possible, even the creation of ideal societies and permanent world peace.

PROGRAMS OFFERED

The Department of Maharishi Vedic Science offers the following programs:

- BA in Consciousness and Human Potential
- BA in Consciousness and Human Potential for students who are already teachers of the Transcendental Meditation program
- Minor in Consciousness and Human Potential
- Undergraduate Certificate in Consciousness and Human Potential
- MA in Maharishi Vedic Science — In three formats:
  - A 2-semester program — mid-August to June of the next year — when taken in the day program class schedule (meeting 5 1/2 days per week, 4 weeks per 4-credit course); or
  - a 3-year program plus the capstone — when taken on the evening/weekend program schedule (meeting several times a week, 12 weeks per 4-credit course);
  - a 3-year distance education program — when taken online (two 10-week 4-credit courses per semester)
• MA in Reading the Vedic Literature — A 3-year program plus the capstone. It is taught on an evening/weekend schedule (meeting several times a week, 12 weeks per 4-credit course).

Note: with additional courses, students can add a specialization to the above master’s degrees in one of the following areas:
- Specialization in Advanced Maharishi Vedic Science
- Specialization in Physiology and Health
- Specialization in Reading the Vedic Literature
- Specialization in Maharishi Gandharva Veda
- Specialization in Maharishi Vedic Technologies
- Specialization in Educational Applications of Maharishi Vedic Science
- Specialization in TM Teacher Training

• PhD in Maharishi Vedic Science — A 4-to-7-year program plus one year of course work (meeting 5 ½ days per week) followed by a dissertation proposal and research.

SPECIAL FEATURES

• Focus on an ideal daily routine with emphasis on experiencing the unified field of natural law in twice-daily practice of the Transcendental Meditation and TM-Sidhi programs

• Extensive exposure to taped lectures by Maharishi on the Science of Creative Intelligence and Maharishi Vedic Science

• Study of the full range of all aspects of the Vedic literature in light of descriptions by Maharishi and Maharaja Adhiraj Rajaṛām (Tony Nader, MD, PhD), including Veda, Vedāṇga, Upāṇga, Upaveda, Itihāsa, Purāṇa, Smṛiti, Brāhmaṇa, and Prātishākhya

• Experience of the correct pronunciation of Sanskrit and the ability to read Sanskrit, which Maharishi has described as the language of nature

• Exploration of the scientific character of Maharishi’s knowledge, including the basic research methods of modern science and its objective verification of Maharishi Vedic Science

• Investigation of the principal theoretical research tools of Maharishi Vedic Science and the Science of Creative Intelligence, including Unified Field and Richo Akshare Charts
• Development of communication skills in Maharishi Science of Creative Intelligence™ and Maharishi Vedic Science with emphasis on writing and speaking skills

**The Bachelor of Arts Degree**

• Coverage of all the major themes of the Consciousness and Human Potential program including higher states of consciousness, collective consciousness, Sanskrit and reading the Vedic literature in Sanskrit, and also surveys of all the Consciousness-Based technologies offered by Maharishi Vedic Science

• Study of source documents in Maharishi Vedic Science with emphasis on the *Bhagavad Gītā, The Science of Being and Art of Living, Absolute Theory of Defense, Vedic Knowledge for Everyone, and Celebrating Perfection in Education*

• Development of writing and speaking skills as students apply Maharishi Vedic Science to the areas of health, education, management, and rehabilitation

• A two-month integrative writing exercise unifying the various themes of the student’s academic experience at Maharishi University of Management

**The Master of Arts Degree**

This program gives knowledge and experience of the student’s own cosmic nature through Maharishi Vedic Science and its technologies for the development of consciousness. It is offered in three formats: a one-year (two-semester) 5 ½ day/week format, a three-year evening/weekend format, and a three-year online distance education format. The themes of knowledge include self-referral, the mechanics of creation, Maharishi’s *Apaurusheya Bhāṣhya* of Rik Veda, the Veda and Vedic literature, and Veda in human physiology.

Following the coursework, students can take one year of additional courses in specified areas of Maharishi Vedic Science.

In addition, students learn to apply a number of technologies of Maharishi Vedic Science to culture higher states of consciousness and balanced, full health. The Master’s program includes:

• Systematic study of Maharishi’s books and tapes

• Systematic study of the Veda and Vedic Literature and its relation with the structure and functioning of the brain

• Periods of extended Transcendental Meditation and TM-Sidhi practice in each course

• Reading Vedic Literature in the original Devanāgarī script
• Having a daily routine to promote deep experiences during the Transcendental Meditation and TM-Sidhi programs, including Yogic Flying

The PhD Degree

This program is for those individuals who wish to become professional exponents of Maharishi Vedic Science. Students develop writing and speaking skills, gain a fuller grasp of principles of Maharishi Vedic Science, and research and write a dissertation in Maharishi Vedic Science, either in (1) Vedic Literature, (2) Applications of Maharishi Vedic Science, (3) Modern Science and Maharishi Vedic Science, (4) Higher States of Consciousness, or (5) Exploration of the Principles of Maharishi Vedic Science in the Vedic literature.

Undergraduate Certificate in Consciousness and Human Potential

The certificate program allows students to take courses in the Consciousness and Human Potential curriculum before entering the full program of study. It offers the opportunity to take a sample of courses in the Consciousness and Human Potential program. It also assesses students’ ability to perform well in an academic setting, which will strengthen their application to the full time program.

Instruction in the Transcendental Meditation Technique and the TM-Sidhi Program

The College of Maharishi Vedic Science offers instruction in the practice of the Transcendental Meditation technique (offered separately or as part of the Science and Technology of Consciousness courses STC 108 and the Science of Creative Intelligence course FOR 500) and the TM-Sidhi program (DC 329 and DC 330), available for additional cost beyond the regular tuition charges.

MA in Reading the Vedic Literature

In the MA in Reading the Vedic Literature, students will read selected branches of the Vedic Literature in the original Devanāgarī script for their sound value—the traditional method of studying the Vedic Literature—and integrate their experiences with knowledge about the Vedic Literature and Maharishi Vedic Science. The purpose of this program is for students to:

• Accelerate growth toward higher states of consciousness as described by Maharishi
• Enliven the qualities of consciousness embodied by selected branches of the Vedic Literature
• Identify patterns of experience during their reading of the Vedic Literature
• Continue their practice of the Transcendental Meditation technique in the most supportive environment and, for most students, the collective practice of the TM-Sidhi program in a large group

**Special features of the MA in Reading the Vedic Literature:**

• Each course will be experiential, based on the student’s reading of the Vedic Literature in Devanāgarī for its sound value
• Students will have the effects of their reading evaluated objectively by the Center for Brain, Consciousness, and Cognition
• Students will enjoy videotaped talks by Maharishi on the Vedic Literature

The length of each course is 12 weeks. Students will take three courses each year and can complete the MA in 3 ½ years.

**Intern option:**
If a student is from the US or is an international student in need of financial aid, the University offers internships while pursuing this degree. In this option, students will be placed in an administrative or academic position on the University campus. The full intern package includes: tuition, on-campus housing, meals, health insurance, and a monthly stipend. *The intern program requires a separate application form.*

**DEPARTMENTAL REQUIREMENTS**

**Entrance Requirements for the Bachelor of Arts Degree in Consciousness and Human Potential**

Before entering the major in Consciousness and Human Potential, students must complete WTG 191.

**Graduation Requirements for the Bachelor of Arts Degree in Consciousness and Human Potential**

To graduate with a BA in Consciousness and Human Potential, students must successfully complete all general requirements for the bachelor’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) The requirements for the major are 52 credits of coursework as listed below.

32 credits of required courses:
• MVS 210 The Dynamics of Consciousness as the Vedic Literature (4 credits)
• MVS 227 Personal Growth of Consciousness (4 credits)
• MVS 241 Models of Human Development (4 credits)
• MVS 302 Dharma: Insights from Maharishi’s commentary on the Bhagavad Gita (4 credits)
• MVS 309 Social Transformation and World Peace (4 credits)
• MVS 370 Inner State of Yoga for Fulfillment in Life (4 credits)
• MVS 391 Senior Writing and Speaking Project (total of 8 credits)

plus at least 20 credits from the following courses:
• MVS 102 Maharishi’s Program for Reading the Vedic Literature (4 credits)
• MVS 202 Self-realization, Freedom, and Fulfillment: Seven States of Consciousness (this course substitutes for the Higher States of Consciousness general education requirement) (4 credits)
• MVS 226 Buddhism, Taoism, and Confucianism
• MVS 240 EEG, Brain and Enlightenment (4 credits)
• MVS 300 *Science of Being* (4 credits)
• Any two of the following three courses:
  • MVS 321 Reading the Vedic Literature: Upānga (4 credits)
  • MVS 322 Reading the Vedic Literature: Upa-Veda (4 credits)
  • MVS 323 Reading the Vedic Literature: Brāhmaṇa (4 credits)
• MVS 331/332 *TM-Sidhi* Program (4 credits)
• MVS 485 Rotating University (6 credits)
• MVS 490 *Transcendental Meditation* Program Teacher Training (12 credits)
• MVS 493 Transcendental Meditation Program Teacher Training Program Fieldwork Internship (8 credits)
• PH 260 *Maharishi Self-Pulse* Reading (4 credits)
• PH 262 Diet, Digestion, and Nutrition (4 credits)
• PH 263 *Maharishi Yoga* Āsanas (4 credits)
• PHYS 297 Philosophy of Science (4 credits)

Note: MVS 490 and MVS 493 are generally taken after all other course work for the bachelor’s degree has been completed. Choosing these courses does not guarantee that the student will be accepted to attend them. For more information, refer to the course descriptions in the COURSES section below.

**Entrance Requirements for the Bachelor of Arts Degree in Consciousness and Human Potential for Teachers of the Transcendental Meditation Technique**

The BA in Consciousness and Human Potential for Teachers of the *Transcendental Meditation* Technique has been designed for those teachers of the Transcendental Meditation technique who have extended experience as professionals in the Transcendental Meditation program prior to enrolling in the BA in Maharishi Vedic
Science major. To enter this program, students must be eligible for 16 credits for the TM Teacher Training course (MVS 490), Teaching Internship (MVS 493) and/or Research Internship (MVS 497).

Graduation Requirements for the Bachelor of Arts Degree in Consciousness and Human Potential for Teachers of the Transcendental Meditation Technique

To graduate with a BA in Consciousness and Human Potential for Teachers of the Transcendental Meditation Technique, students must successfully complete all requirements for the bachelor’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) The requirements for the major are 52 credits of course work as follows:

20 credits from the following:
• MVS 490 Transcendental Meditation Program Teacher Training (12 credits)
• MVS 493 Transcendental Meditation Program Teacher Training Program Teaching Internship (8 credits)

plus 32 credits of the following:
• MVS 210 The Dynamics of Consciousness as the Vedic Literature (4 credits)
• MVS 227 Personal Growth of Consciousness (4 credits)
• MVS 241 Models of Human Development (4 credits)
• MVS 302 Dharma: Insights from Maharishi’s commentary on the Bhagavad Gita (4 credits)
• MVS 309 Social Transformation and World Peace (4 credits)
• MVS 370 Inner State of Yoga for Fulfillment in Life (4 credits)
• MVS 391 Senior Writing and Speaking Project (total of 8 credits)

plus 4 credits from the following:
• MVS 102 Maharishi’s Program for Reading the Vedic Literature (4 credits)
• MVS 202 Self-realization, Freedom, and Fulfillment: Seven States of Consciousness (4 credits) This course substitutes for the Higher States of Consciousness general education requirement
• MVS 240 EEG, Brain and Enlightenment (4 credits)
• MVS 300 Science of Being (4 credits)
• Any two of the following three courses:
  o MVS 321 Reading the Vedic Literature: Upānga (4 credits)
  o MVS 322 Reading the Vedic Literature: Upa-Veda (4 credits)
  o MVS 323 Reading the Vedic Literature: Brāhmaṇa (4 credits)
• MVS 331/332 TM-Sidhi Program (4 credits)
• MVS 485 Rotating University (6 credits)
• PH 260 Maharishi Self-Pulse Reading (4 credits)
• PH 262 Diet, Digestion, and Nutrition (4 credits)
• PH 263 Maharishi Yoga Āsanas (4 credits)
• PHYS 297 Philosophy of Science (4 credits)

Graduation Requirements for the Minor in Consciousness and Human Potential

To graduate with a minor in Consciousness and Human Potential, students must successfully complete any four (16 credits) courses in Maharishi Vedic Science numbered higher than MVS 202, or any three plus MVS 102 Maharishi’s Program for Reading the Vedic Literature.

Entrance Requirements for an Undergraduate Certificate in Consciousness and Human Potential

Any student with a high school diploma and a GPA of 2.5 is eligible to apply for a Certificate in Consciousness and Human Potential.

Graduation Requirements for an Undergraduate Certificate in Consciousness and Human Potential

To receive a certificate in Consciousness and Human Potential, students must complete 18 credits as follows:
• STC 108 (6 credits)
• Any 3 undergraduate MVS courses (12 credits)

Graduation Requirements for the Concentration in Teaching the Transcendental Meditation Program

The Concentration in Teaching the Transcendental Meditation Program can be added to an undergraduate or graduate student’s degree. Undergraduates need to complete the following course:

• MVS 490 Transcendental Meditation Program Teacher Training (12 credits)

MASTER OF ARTS IN MAHARISHI VEDIC SCIENCE

Entrance Requirements

For entrance into all MA in Maharishi Vedic Science programs, students must hold a bachelor’s degree.
Students entering the one-year day program who are not yet practicing the Transcendental Meditation program will receive instruction in the Transcendental Meditation technique as part of their first course. It is recommended that all students in this MA program also practice the TM-Sidhi program. Those students who have not yet learned the TM-Sidhi program may be able to learn these techniques after they have enrolled.

Students entering the three-year evening/weekend program must be practicing both the Transcendental Meditation and TM-Sidhi programs for at least one year.

Students entering the three-year online distance education program must 1) have a bachelor’s degree or a BA equivalency including significant professional standing in Maharishi Vedic Science, and 2) be practicing the Transcendental Meditation program before they take their first course.

Note: For students whose first language is not English, a minimum TOEFL score is required for entrance into this program: TOEFL iBT 100, IELTS 7.0, and PTE 65.

**Graduation Requirements for the Master of Arts Degree in Maharishi Vedic Science (Day Program)**

In order to qualify for the degree of MA in Maharishi Vedic Science, students must successfully complete all requirements for the master’s degree, including FOR 500 *The Science of Creative Intelligence* (4 credits) and one additional Forest Academy per semester enrolled full time. Additionally, students are encouraged to take the fall and spring weekend World Peace Assemblies. (Please refer to “Degree Requirements” in “Academic Policies.”) In addition, students must complete 36 credits of coursework from the following courses (total 40 credits):

- MVS 485 Rotating University (6 credits)
- MVS 504 Physiology, Consciousness, and Veda (4 credits)
- MVS 509 Philosophy of Action (4 credits)
- MVS 516 Science of Being (2 credits)
- MVS 525 Maharishi’s Program of Reading the Vedic Literature 1, or MVS 526 Maharishi’s Program of Reading the Vedic Literature 2 (4 credits)
- MVS 529 Philosophy of Yoga (4 credits)
- MVS 540 Principles of Maharishi Vedic Science: The Self-Referral Dynamics of Consciousness (2 credits)
- MVS 544 Maharishi Vedic Science in Physics (4 credits)
- MVS 552 Enlightenment: States of Higher Development in Maharishi Vedic Science (4 credits)
• MVS 555 Engaging Nature’s Government (4 credits)
• MVS 585 Capstone — Celebrating Perfection in Education (4 credits)

Note: In the event that a student has completed some of these courses as part of previous undergraduate and/or graduate degrees, the student may petition the department to take one or more blocks from the following:

• MVS 480 Topics in Maharishi Vedic Science (4 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course)
• MVS 534 Readings in Vedic Literature (4 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course)

Students will experience extended practice of the TM-Sidhi program and read the Vedic literature.

• MVS 581 Applied Research in Maharishi Vedic Science (4 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course)

Students will apply the knowledge they have gained in their undergraduate work to an area in society.

Graduation Requirements for the MA in Maharishi Vedic Science Extended Professional Schedule (Evening/Weekend Program)

Students who currently practice the TM-Sidhi program and whose extended plan of study allows them to complete at least 12 credits of DC 535 may elect to earn the MA in MVS by completing their course work on the weekends and evenings. Students who wish to be eligible for application for admission to the PhD in Maharishi Vedic Science must also take MVS 548 Academic Writing after their other courses in the degree.

To graduate with an MA in MVS, a student needs 12 courses (48 credits), including SCI 500, MVS 525 Reading the Vedic Literature 1 and MVS 526 Reading Vedic Literature 2 (which are taken concurrently throughout the MA program), a Forest Academy each semester or MVS 582, and MVS 585 Capstone — Celebrating Perfection in Education.

The other nine courses can be from the following:
• MVS 485 Rotating University (6 credits)
• MVS 504 Physiology, Consciousness, and Veda (4 credits)
• MVS 509 Philosophy of Action (4 credits)
• MVS 516 Science of Being (2 credits)
• MVS 525 Maharishi’s Program of Reading the Vedic Literature 1, or MVS 526 Maharishi’s Program of Reading the Vedic Literature 2 (4 credits)
• MVS 529 Philosophy of Yoga (4 credits)
• MVS 540 Principles of Maharishi Vedic Science: The Self-Referral Dynamics of Consciousness (2 credits)
• MVS 544 Maharishi Vedic Science in Physics (4 credits)
• MVS 552 Enlightenment: States of Higher Development in Maharishi Vedic Science (4 credits)
• MVS 555 Engaging Nature’s Government (4 credits)

plus
12 credits of DC 535 The Transcendental Meditation and TM-Sidhi Programs, including Yogic Flying: Learning to Think and Act from the Level of Transcendental Consciousness (2 credits per semester)

Graduation Requirements for the Master of Arts Degree in Maharishi Vedic Science (Online program)

In order to qualify for the degree of MA in Maharishi Vedic Science through online delivery, students must successfully pass all 12 courses in the degree (48 credits). Each course is 10 weeks long. The program takes three years.

The Science and Technology of Consciousness course (STC 508) must be taken first. The other 11 courses may be taken in any order within three recommended sections, as indicated below. Students may waive STC 508 if they have taken MVS 500 the Science of Creative Intelligence within the last few years.

• STC 508 Science and Technology of Consciousness (4 credits)

First level of courses:
• MVS 516 Science of Being (2 credits)
• MVS 525 Maharishi’s Program of Reading the Vedic Literature 1 (4 credits)
• MVS 529 Philosophy of Yoga (4 credits)

Second level of courses:
• MVS 504 Physiology, Consciousness, and Veda (4 credits)
• MVS 544 Principles of Maharishi Vedic Science in Physics (4 credits)
• MVS 510 Bhagavad-Gītā (Chapters 1-3) (4 credits)
• MVS 511 Bhagavad-Gītā (Chapters 4-6) (4 credits)
Third level of courses:

- MVS 540 Principles of Maharishi Vedic Science: The Self-Referral Dynamics of Consciousness (4 credits)
- MVS 552 Enlightenment: States of Higher Development in Maharishi Vedic Science (4 credits)
- MVS 555 Engaging Nature’s Government (4 credits)
- MVS 585 Capstone — Celebrating Perfection in Education (4 credits)

MASTER OF ARTS IN
READING THE VEDIC LITERATURE

Entrance Requirements

For entrance into the MA in Reading the Vedic Literature, applicants must:

- Hold a bachelor’s degree. Applicants without a bachelor’s degree may be considered if they can show a bachelor’s equivalent;
- Have a background in Maharishi Vedic Science and be able to read the Devanāgarī script proficiently with proper pronunciation. Applicants can refresh their skills of reading Devanāgarī through an MUM online interactive language laboratory;
- Be regularly practicing the Transcendental Meditation program (and the TM-Sidhi program for those who have taken the course);
- Complete MUM checklists for general entrance requirements;
- An essay on Maharishi Vedic Science may be required of some applicants.

Note: For students whose first language is not English, a minimum TOEFL score is required for entrance into this program: TOEFL iBT 100, IELTS 7.0, and PTE 65.

Graduation Requirements for a Master of Arts in Reading the Vedic Literature

In order to qualify for the degree of MA in Reading the Vedic Literature, students must successfully complete all requirements for the master’s degree. (Please refer to “Degree Requirements” in “Academic Policies.” Note, however, that students in this program aren’t required to take FOR 500 or other Forest Academies.) In addition, students must complete 44 credits of coursework. (Students can test out of MVS 5010 by speaking with the program director.)

- MVS 5010 Introduction to Reading the Vedic Literature (2–4 credits)
- MVS 5011 Shikshā: Enlivening the Expressing Quality of Pure Intelligence (4 credits)
- MVS 5012 Jyotish: Enlivening the All-Knowing Quality of Intelligence (4 credits)
- MVS 5013 Yoga: Enlivening the Unifying Quality of Intelligence (4 credits)
• MVS 5014 Vedānt: Enlivening the Lively Absolute Quality of Intelligence (4 credits)
• MVS 5015 Sthāpatya Veda: Enlivening the Establishing Quality of Pure Intelligence (4 credits)
• MVS 5016 Charak Samhitā: Enlivening the Balancing Quality of Intelligence (4 credits)
• MVS 5017 Upanishad: Enlivening the Transcending Quality of Intelligence (4 credits)
• MVS 5018 Itihās: Enlivening the Blossoming of Totality Quality of Intelligence (4 credits)
• MVS 5019 Purāṇ: Enlivening the Ancient and Eternal Quality of Intelligence (4 credits)
• MVS 5010 Capstone Thesis on the Effects of Reading the Vedic Literature (4 credits)

MASTER’S DEGREE SPECIALIZATIONS

Students in the MA in Maharishi Vedic Science listed above may add a specialization to their degree by completing additional coursework in one of the following areas:

• **Specialization in Advanced Maharishi Vedic Science**
  18–36 credits of coursework in classes that were not taken for the MA in MVS or have been significantly reformulated with new books and materials since they were taken or MVS 520 Advanced Studies in Maharishi Vedic Science

• **Specialization in Physiology and Health**
  18–36 credits of graduate courses in Physiology and Health

• **Specialization in Reading the Vedic Literature**
  18–36 credits of coursework selected from the following:
  • MVS 525 Maharishi’s Program of Reading the Vedic Literature 1
  • MVS 526 Maharishi’s Program of Reading the Vedic Literature 2
  • MVS 527 Advanced Sanskrit
  • MVS 534 Readings in Vedic Literature

• **Practicum Specialization**
  Students expand, apply, and express their growing knowledge of Maharishi Vedic Science in professional settings. The Practicum Specialization may be taken concurrently with the evening/weekend program schedule of study, or they may be taken after some or all of the MA coursework in the day program schedule has been completed.

• **Specialization in Maharishi Vedic Technologies**
  18–36 credits of:
  • MVS 580 Practicum in Maharishi Vedic Technologies
• Specialization in Educational Applications of Maharishi Vedic Science
  18–36 credits of:
  • MVS 581 Applied Research in Maharishi Vedic Science

• Specialization in TM Teacher Training
  (Students who have successfully completed the TM Teacher Training course before they
take the MA courses, will automatically graduate with a specialization in TM Teacher
Training)
  • MVS 490 Transcendental Meditation Program Teacher Training (12 credits)
  • MVS 493 Transcendental Meditation Program Teacher Training Program Teaching
    Practicum (8 credits)

PHD IN MAHARISHI VEDIC SCIENCE

Entrance Requirements for the PhD Degree in Maharishi Vedic Science

The PhD in Maharishi Vedic Science is the highest academic and professional degree in
the discipline devoted to the study of the holistic development of consciousness. The
Department will, therefore, evaluate applicants not only for their demonstrated ability to
undertake doctoral level academic work in the field, but also for the prospective student’s
demonstrated ability to serve as an example of the highest standards of holistic
development.

Students entering the program must be practicing the TM-Sidhi program for at least one
year, hold a Master of Arts degree in Maharishi Vedic Science (please refer to listing
above for requirements), and have demonstrated the ability to undertake doctoral level
work. For acceptance into the program, a student’s complete academic record and
personal recommendations are also considered.

This program is for those individuals who wish to accelerate growth to enlightenment and
become professional exponents of Maharishi Vedic Science. Students deepen their
experiences of higher states of consciousness, gain a fuller grasp of principles of
Maharishi Vedic Science, and refine their presentation and teaching skills. Students may
choose to research and write a dissertation in one of the following: (1) Reading Vedic
Literature in Sanskrit, (2) Applications of Maharishi Vedic Science to Society, (3)
Modern Science and Maharishi Vedic Science, (4) Research in Higher States of
Consciousness, or (5) Exploration of the Principles of Maharishi Vedic Science in the
Vedic literature.
Graduation Requirements for the PhD Degree in Maharishi Vedic Science

The Core Curriculum consists of 46 credits selected by the faculty from the following courses:

YEAR 1
• MVS 605: Seminar on Philosophy of Science and Scientific Research on Maharishi’s Technologies of Consciousness (4 credits)
• MVS 611 Research Methods: Learning the Self-Referral, Self-Correcting Nature of Science (4 credits)
• MVS 670 Advanced Analysis and Synthesis of Total Knowledge. (8 credits)
• MVS 671 Maharishi’s Insight into the Veda and Vedic Literature: Fabrics of Immortality. (8 credits)
• MVS 674 Peace-Creating Professionals: Applying Maharishi Vedic Science to Society. (8 credits)
• MVS 680 Maharishi Vedic Science Seminar (1 credit per semester)
• MVS 691 Preparation for the Qualifying Examination: Synthesizing and Expressing Total Knowledge (4 credits)

Upon successful completion of this core curriculum, students are advanced to candidate status and begin work in their dissertation proposal.

YEAR 2
• MVS 695 Faculty Development Seminar (2–4 credits)
• MVS 700 Dissertation proposal (12 credits)

Upon successful completion of these courses, which culminates with the defense of their written proposal, students advance to the PhD researcher status and then enroll in MVS 701 Original Research and Dissertation Preparation.

The PhD degree is awarded to a PhD researcher once the following steps have been completed:
• Presentation of the dissertation findings in a formal lecture with an open public forum for discussion
• Acceptance of dissertation by the Graduate School and the Library
• Certification by the graduate faculty of the student’s continuing exemplification of the highest standards of holistic development.
COURSES

Undergraduate Courses

**MVS 100 Learning the Transcendental Meditation Program**
This course introduces the student to the theory and practice of the Transcendental Meditation program as taught by Maharishi Mahesh Yogi through instructors certified by the Maharishi Foundation USA. (1 credit)

**MVS 102 Maharishi’s Program for Reading the Vedic Literature**
Reading the Vedic Literature in the Sanskrit script is a technology of Maharishi’s Science and Technology of Consciousness for enhancing the development of higher states of consciousness. In this course, students learn to read the Vedic Literature in the original Sanskrit for its sound value and discover how this practice strengthens brain functioning. Students also learn the basic principles of Maharishi’s Science and Technology of Consciousness, Vedic Science, including the recent discovery of how human physiology forms a perfect replica of natural law, as embodied in the 40 aspects of the Veda and Vedic Literature. This historic discovery reveals that the natural laws governing the universe are the same laws governing our physiology — meaning that each of us has access, within our own physiology, to the total potential of natural law. (4 credits)

**MVS 108 Science of Creative Intelligence: Understanding and Experience of the Source, Course, and Goal of Creative Intelligence in Your Own Pure Consciousness as the Basis of All Knowledge and Success in Life**
In the Science of Creative Intelligence, students study the structure of the field of pure intelligence, from which all fields of knowledge arise. Only from this most fundamental level can knowledge be unified. This course examines how the creative intelligence displayed in every grain of creation arises in a systematic and sequential fashion from within that one basic universal field. Students also examine how one can access and use that universal field of intelligence to bring fulfillment to their own lives and to life on earth. In 1972, Maharishi laid out the main principles of this new science in a 33-lesson, videotaped course. He integrated the understanding of nature’s intelligence provided by modern science (through its objective approach) and by ancient Vedic Science (which utilizes both objective and subjective approaches to gaining knowledge). Students not yet instructed in the Transcendental Meditation program learn this simple, effortless technique as part of the SCI course. (4–6 credits)

**MVS 150 CCTS Science and Subjectivity—Critiques of Science as a Purely Objective Approach to Knowledge**
This reading-intensive seminar will present the standard view of science as an attempt at gaining objective knowledge using logic and observation. It will then study critiques of
this model, which bring out the role that subjective factors like creativity and judgment play at each step of the process. It will also explore the question of whether there can be a “subjective science,” and how Maharishi’s Vedic Science fits within the structure of scientific approaches to knowledge. Readings will include Thomas Kuhn’s *The Structure of Scientific Revolutions* and Ken Wilber’s *The Marriage of Sense and Soul*. (4 credits) 

***Prerequisite:*** taken during students’ first semester, or with consent of the Department faculty

**MVS 201 Full Range of Consciousness**
This course will explore the full range of consciousness beginning with conscious experience of thoughts and outer objects and ending with the experience of pure consciousness as a fundamental field. You will study leading models of consciousness in modern science and compare them to the integrated model of consciousness in the Science and Technology of Consciousness articulated by Maharishi Mahesh Yogi which defines seven states of consciousness. (4 credits)

**MVS 202 Self-realization, Freedom, and Fulfillment: Seven States of Consciousness**
This course is an in-depth, advanced version of FOR 431 that allows a much deeper and more nuanced exploration of higher states of consciousness as described by Maharishi and as experienced naturally and spontaneously by Transcendental Meditation practitioners and by people throughout history. Included are specific perspectives on human development and enlightenment from key Western and Eastern thinkers, as well as expanded video and reading selections, more time for discussion, and more options for expressing course material through writing, multimedia presentations, and small-group projects. The course is question- and discussion-driven, with an emphasis on connecting this understanding of higher states to your own experiences—and addressing any and all individual questions on these topics. A TM Retreat/World Peace Assembly is included. This course may be substituted for FOR 431 to fulfill the General Education graduation requirement. (4 credits) 

***Prerequisite:*** FOR 103 or PH 101

**MVS 208 Fundamentals of Maharishi Vedic Science: Atma and Veda — the Self-Referral Dynamics of Consciousness Underlying the Individual and the Universe**
This course systematically investigates Maharishi’s explanation of the self-referral dynamics and structure of pure consciousness, as being the ultimate source and content of all the laws of nature that are responsible for the creation and orderly functioning of both individual and universal life. **Topics include:** the analysis and synthesis of the nature and range of *Atma*, the universal Self of every individual; how the fluctuations of *Atma* appear as the structure and qualities of the four Vedas in terms of their qualities and sequential unfolding; how the structures and functions of the Vedas correspond to the human physiology and the cosmic physiology of the cosmos; the reading of the Vedic
Literature in Sanskrit; and exploring the correlation between the cosmic creative process as expressed in the Vedas with theories of the structure and functioning of the unified field Superstring theory of modern quantum physics. (4 credits)

**MVS 210 The Dynamics of Consciousness as the Vedic Literature**
Is human knowledge inevitably partial or can we fathom complete knowledge? How are insights of ancient seers into the nature of reality relevant to our contemporary lives? This course examines questions such as these in light of Maharishi Vedic Science (“Vedic” is from “Veda,” meaning knowledge). You will learn about Vedic literature — including Yoga, Vedanta, and the Upanishads — in light of the direct experience of consciousness. From time immemorial, Vedic literature has been studied for its enlightening wisdom; this course explores Maharishi’s unified structure of Vedic literature as the dynamics of consciousness knowing itself. Qualities of consciousness — such as expanding, unifying, and analyzing — are explored in the branches of Vedic literature, in human physiology and in the structure of the universe. *This is a writing intensive course.* (4 credits)

*Prerequisite: WTG 192*

**MVS 226 Maharishi Vedic Science and Buddhism, Taoism, Confucianism**
Students explore universal principles of life expressed by Maharishi Vedic Science and the religions of Buddhism, Taoism, and Confucianism. The course gives students the opportunity to study the following topics: The existence and nature of God, the main purpose of human life, the ultimate cause of all problems and suffering, turning within and the technology of transcending, developing higher states of consciousness, and the creation of heaven on earth. (4 credits)

**MVS 227 Personal Growth of Consciousness (4 credits)**
In this course students learn about and practice a range of Vedic technologies to maximize personal growth of consciousness, including a seven-day retreat, Maharishi’s videotaped lectures, training in physical health and fitness, group-building projects, and a class-agreed daily routine protocol. In addition, we will explore Maharishi AyurVeda diet and cooking, some simple self-administered Panchakarma therapies, Maharishi Gandharva music, and artistic expression — writing, music, drawing, and painting. There will be a capstone project to integrate knowledge and experiences gained during the course. (4 credits)

**MVS 240 EEG, Brain, and Enlightenment: Brain Functioning Underlies Conscious Processing, States of Consciousness, and Enlightenment**
Brain functioning underlies conscious processing, states of consciousness, and enlightenment. Students will learn how to record EEG (brain waves) and other physiological measures (breath rate, heart rate, and skin conductance), will learn the brain
signatures of the practice of the Transcendental Meditation technique and of higher states of consciousness, and will conduct original research testing a research question that they generate during the course. (4 credits) **Prerequisite:** PH 101

**MVS 241 Models of Development: Frontiers of Human Potential**
This course will explore models of human development across the lifespan. You will examine Piaget’s model of cognitive development; Loevinger and Cook-Greuter’s models of ego or self-development; Kohlberg’s model of moral development; and the Science and Technology of Consciousness of Maharishi Mahesh Yogi. (4 credits)

**MVS 300 Science of Being and Art of Living: Maharishi’s Guide to Life in Enlightenment**
*Science of Being and Art of Living* was Maharishi’s first book, published in 1963. In this course, both through reading and through studying Maharishi’s video tapes, students investigate the main themes of the book — Being, the essential constituent of creation; how to contact and how to live Being; how to live one’s full potential, in thought, speech, action, and relationships; and God realization. (4 credits)

**MVS 302 Dharma: Insights from Maharishi’s commentary on the Bhagavad Gita (4 credits)**
What action in life is best for your personal development — your “Dharma”? How does this relate to family, social, and global responsibilities? How do we make the right decisions for ourselves and others, and act in a way that is enjoyable, not stressful and exhausting? This course studies timeless questions and dilemmas such as these, discussed in the Bhagavad-Gita — using as a guide Maharishi Mahesh Yogi’s translation of and commentary on chapters one to six. (4 credits)

**MVS 304 Applications of Maharishi Vedic Science: Creating a Stress-Free, Harmonious, Prosperous, and Enlightened Society**
In this course, students examine applications of Maharishi Vedic Science to education and rehabilitation, government and defense, or business and industry. Then they review research documenting the effectiveness of the technologies of Maharishi Vedic Science in these areas. (variable credits)

**MVS 308 Verifying a New Paradigm of Human Potential: Research Design and Methodology in Light of Transcendental Meditation Program Outcomes**
This course reviews contemporary methods of research design and methodology, and issues from the philosophy of science, in light of fifty years of research on the Transcendental Meditation and TM-Sidhi programs. These precise, systematic, and effective programs for developing human consciousness open up new frontiers of researching mental potential, brain functioning, health, behavior, education, and social
relationships. This course develops your ability to evaluate and explain research design and methodology – skills that can be transferred to a wide range of applications. (4 credits)

**MVS 309 Social Transformation and World Peace (4 credits)**
Course participants study how Maharishi applied the ancient knowledge of Yoga technologies to create contemporary solutions for world peace. This includes a focus on the principles of and published scientific research on creating coherence in collective consciousness. There is an in-depth review of Maharishi’s historic unfoldment of this knowledge from 1960 to current strategies to create permanent world peace in this generation. By way of comparison, there is also a brief review of other peace-creating strategies. The course includes both theoretical understanding and direct experience of peace-creating programs, with emphasis on the relationship of personal inner peace and peace creation in the public domain. (4 credits)

**MVS 310 TM Program Lecture Training and Checker Training**
During the lecture portion of this course, students learn the four parts of the standard lecture for introducing prospective students to the scientifically validated benefits of regular practice of the Transcendental Meditation technique. During the checker training portion of this course, students are trained in the procedure of how to check the correct practice of the Transcendental Meditation technique. This course can also include additional preparation for the TM Teacher Training Course. (variable units) *Prerequisite:* consent of instructor

**MVS 312 Field Experience: Applying the Principles You Have Learned to Improve Quality of Life in Society**
During this course students will work on campus or in nonprofit educational institutions authorized to hold courses in the Transcendental Meditation technique. Students will help organize courses, apply their lecture and/or checking skills, and help with expansion projects for these institutions. (variable credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) *Prerequisite:* consent of the instructor

**MVS 321 Reading the Vedic Literature: Upanga**
During this course, students will read the classical texts of Vedic Literature in the Devanāgarī script. The texts are read for the sound value, enjoying benefits in consciousness and in physiology. Students will begin this course with a major division of the Vedic Literature. (4 credits) *Prerequisites:* MVS 102 and permission of the instructor
MVS 322 Reading the Vedic Literature: Upa-Veda
During this course, students will read the classical texts of Vedic Literature in the Devanāgarī script. The texts are read for the sound value, enjoying benefits in consciousness and in physiology. Students will begin this course with a major division of the Vedic Literature. (4 credits) *Prerequisites:* MVS 102 and permission of the instructor

MVS 323 Reading the Vedic Literature: Brahmana
During this course, students will read the classical texts of Vedic Literature in the Devanāgarī script. The texts are read for the sound value, enjoying benefits in consciousness and in physiology. Students will begin this course with a major division of the Vedic literature. (4 credits) *Prerequisites:* MVS 102 and permission of the instructor

MVS 327: Personal Growth of Consciousness
In this course students learn about and practice a range of Vedic technologies to maximize personal growth of consciousness, including a seven-day retreat, Maharishi’s videotaped lectures, training in physical health and fitness, group-building projects, and a class-agreed daily routine protocol. In addition, we will explore Maharishi AyurVeda diet and cooking, some simple self-administered Panchakarma therapies, Maharishi Gandharva music, and artistic expression — writing, music, drawing, and painting. There will be a capstone project to integrate knowledge and experiences gained during the course. (4 credits)

MVS 331 TM-Sidhi Program
MVS 332 TM-Sidhi Program
The Transcendental Meditation Sidhi® (TM-Sidhi®) program is a simple, natural, effortless set of procedures that accelerate the personal growth gained from the Transcendental Meditation technique. The TM-Sidhi program is designed to accelerate the growth of creativity, learning ability, physical health, and psychological well-being that TM technique practitioners report.

MVS 370 Yoga — Theory and Practice
This course explores themes related to Yoga philosophy in light of effortless, natural practice of Transcendental Meditation. The course introduces Yoga both as a settled inner state of mind and a path of development, as brought out by Maharishi in his books and lectures. Topics include Yoga and the brain, Yoga and health, development of full human potential, Yoga and Dharma, and the role of Yoga Asanas in the eight limbs of Yoga brought out in the traditional Yoga text, Patanjali’s Yoga Sutra. (4 credits)
MVS 391 MVS Senior Writing and Speaking Project
During this course, students develop and present a summative oral presentation and write a paper that serves to integrate and complete the knowledge and experience gained from the Consciousness and Human Potential major. Note: A total of 4 credits is required. Students should take the course after having completed all other requirements. (4 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course)

MVS 399 Directed Study
(variable credits) Prerequisite: consent of the Department faculty and the Academic Standards Committee

MVS 408 Professional Development in Maharishi Vedic Technologies: Learning and Applying the Technologies of Maharishi Vedic Science in Society
This course is designed for students who are taking part in professional training programs in Maharishi Vedic Technologies. (variable credits based on one credit for each week of full-time instruction.) Prerequisite: consent of the Department

MVS 475 Senior Project Seminar
In this two-month seminar, senior students reflect on their undergraduate education. This gives students an opportunity to integrate all aspects of their experience at Maharishi University of Management, including course work, extra-curricular activities, and personal development, and to articulate ways in which experience and understanding of Maharishi Vedic Science have deepened their knowledge. Growth in areas described by the university’s general education goals is also assessed during this course. This is a writing intensive course. (8 credits) Prerequisite: consent of the Department

MVS 480 Topics in Maharishi Vedic Science
This course presents knowledge of Maharishi Vedic Science, formulated by Maharishi and applied to all streams of knowledge by the University faculty and guest lecturers. The principles of this integrated structure of knowledge are shown to have application for every area of society, as documented by the scientific research on the Transcendental Meditation and TM-Sidhi programs. Options include Raam Raj™ courses in Advanced Maharishi Vedic Science presenting the discovery of the link between the physical universe and consciousness in the expression of the Veda and Vedic Literature in Human Physiology. (4 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course)
MVS 485 Rotating University
Rotating University courses offer opportunities to study Consciousness and Human Potential abroad. Students travel to a country that has sister institutions to MUM or plays a special role in worldwide Transcendental Meditation organizations — such as India, South Africa, Switzerland — to study the Science and Technology of Consciousness in that context. The course may include videotaped lectures of Maharishi, study of Sanskrit, and excursions to relevant locales. In some cases, the focus includes study of deep cultural traditions of a country such as China and how these traditions parallel the Science and Technology of Consciousness (4 credits). Prerequisite: consent of department faculty

MVS 490 Transcendental Meditation Program Teacher Training Course (TTC)
This course trains students in the knowledge and skills required to be a teacher of the Transcendental Meditation program. Participation does not automatically qualify a student to graduate as a teacher of the Transcendental Meditation program. Further training and fieldwork may be needed before graduation as a teacher. Students must have a minimum of at least one year of progress in a degree at Maharishi University of Management before taking MVS 490. The course must be appropriate to the degree the student is taking. Academic credit for the completion of this course is offered by Maharishi University of Management, Fairfield, IA, under a contractual agreement with Maharishi University of Management, Netherlands, which controls acceptance to the course, course cost, and course content. (12 credits) Prerequisites: STC 108 or FOR 500 and completion of one year of MUM coursework. This course is taught under contractual agreement with a non-accredited, non-federal-aid-eligible organization. Students must apply to and be accepted by that organization.

MVS 492 Transcendental Meditation Program Teacher Training Program Fieldwork Internship
This course allows students to learn and perfect the ability to expound the knowledge for developing consciousness as the unified field of natural law in the individual and in society. (2–8 credits) Prerequisites: MVS 490, prior consent of the Department faculty, approved study plan, and consent of the Academic Standards Committee

MVS 493 Transcendental Meditation Program Teacher Training Program Fieldwork Internship
In this course, students who have qualified as teachers of the Transcendental Meditation technique work full time for at least four months teaching these programs. Two credits are given for each month students are engaged in this internship. (Maximum of 8 credits during a semester; may be repeated for a second semester) Prerequisite: MVS 490
MVS 497 Transcendental Meditation Program Research Internship
This course provides the opportunity for extended development of consciousness as a field of all possibilities as well as practical application of Maharishi Vedic Science. Students must apply and be accepted. (2 credits/month)

MVS 499 Directed Study
(variable credits) Prerequisite: consent of the Department faculty and the Academic Standards Committee

Graduate Courses

Note: All 3–4 credit graduate courses can be taken in 1.5–2 credit sections, sections A and B. However, both sections A and B must be taken in order for the course to be considered completed.

MVS 501 Science of Creative Intelligence: Understanding and Experience of the Source, Course, and Goal of Creative Intelligence in Your Own Pure Consciousness as the Basis of All Knowledge and Success in Life
In the Science of Creative Intelligence, students study the structure of the field of pure intelligence, from which all fields of knowledge arise. Only from this most fundamental level can knowledge be unified. This course examines how the creative intelligence displayed in every grain of creation arises in a systematic and sequential fashion from within that one basic universal field. Students also examine how one can access and use that universal field of intelligence to bring fulfillment to their own lives and to life on earth. In 1972, Maharishi laid out the main principles of this new science in a 33-lesson, videotaped course. He integrated the understanding of nature’s intelligence provided by modern science (through its objective approach) and by ancient Vedic Science (which utilizes both objective and subjective approaches to gaining knowledge).

MVS 501 Learning the Transcendental Meditation Program
This course introduces the student to the theory and practice of the Transcendental Meditation program as taught by Maharishi Mahesh Yogi through instructors certified by the Maharishi Foundation USA. (1 credit)

MVS 504 Physiology, Consciousness, and Veda: Awakening Your Total Brain Potential
In this course, students learn how the brain is designed to be a perfect reflector of total natural law. They see how consciousness structures the physiology and how the innumerable connections among the ten billion brain cells enable a person to live in higher states of consciousness. Students measure their own growth of consciousness as part of the course. (2–4 credits)
MVS 509 Philosophy of Action
In this course, students study Maharishi’s commentary on the Bhagavad-Gita, which provides a systematic exposition of the development of human consciousness, its relationship to knowledge, and its application to improve the quality of individual and collective life. This course covers all six chapters. (4 credits)

MVS 510 Bhagavad-Gita: Chapters 1–3
In this course, students study Maharishi’s commentary on the Bhagavad-Gita, which provides a systematic exposition of the development of human consciousness, its relationship to knowledge, and its application to improve the quality of individual and collective life. This course focuses in depth on the first three chapters. (2-4 credits)

MVS 511 Bhagavad-Gita: Chapters 4–6
In this course, students study Maharishi’s commentary on the Bhagavad-Gita, which provides a systematic exposition of the development of human consciousness, its relationship to knowledge, and its application to improve the quality of individual and collective life. This course focuses in depth on chapters 4–6. (4 credits)

MVS 512 Fundamentals of Maharishi Vedic Science
In this course, students learn basic principles of Maharishi Vedic Science, such as higher states of consciousness, levels of mind, 40 aspects of the Vedic literature, Maharishi’s Apaurusheya Bhashya, and Maharishi Sthapatya Veda design. Students also learn numerous Vedic expressions from the Vedic literature. (4–6 credits)

Science of Being and Art of Living was His Holiness Maharishi Mahesh Yogi’s first book, published in 1963. In this course, both through reading and through studying Maharishi’s videotapes, students investigate the main themes of the book — Being, the essential constituent of creation, how to contact and how to live Being, how live one’s full potential, in thought, speech, action, and relationships, and God realization. (2–4 credits)

MVS 517 Final Paper
In this course, students research in depth an applied aspect of Maharishi Vedic Science and write an academic paper. Alternatively, students have the option of reading the Vedic literature and writing about their experiences of higher states of consciousness. A faculty member in the Maharishi Vedic Science department supervises the research and the
MVS 520 Advanced Study in Maharishi Vedic Science: Analyzing the Fabric of Immortality
This course is designed for students who have completed the department’s Vedic Science offerings and wish to reexamine themes from these courses in light of more recent findings in the discipline. Possible topics include: Veda and Vedic literature, the self-referral dynamics of consciousness, and the discovery of Veda and Vedic literature in the human physiology. Also, recent books and lectures will be used. (variable credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Note: This course is for students enrolled in the Specialization in Maharishi Vedic Science. Prerequisite: consent of instructor

MVS 525 Maharishi’s Program of Reading the Vedic Literature 1: Learning the Language of Nature and Understanding Principles of Natural Law
This course introduces the proper pronunciation and reading of Sanskrit, the language of the Vedic literature. Students learn the Sanskrit alphabet and the Devanāgarī script, and they study Maharishi’s explanation of the role of Sanskrit as the language of nature. (variable credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Prerequisite: MVS 509

MVS 526 Maharishi’s Program of Reading the Vedic Literature 2: Learning the Language of Nature and Understanding Principles of Natural Law
This course introduces the proper pronunciation and reading of Sanskrit, the language of the Vedic literature. Students learn the Sanskrit alphabet and the Devanāgarī script, and they study Maharishi’s explanation of the role of Sanskrit as the language of nature. (variable credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Prerequisite: MVS 509

MVS 529 Philosophy of Yoga
This course examines Maharishi’s lectures and writings in order to better understand the principles of Yoga philosophy as found in its source texts — principally the Bhagavad-Gita and Patanjali Yoga Sutra. Topics include in-depth study of topics such as the difference between the “state of Yoga” and the “path of Yoga”; Yoga and the brain; Yoga in human physiology; Yoga and the realization of full human potential; Yoga and Dharma; misunderstandings about Yoga; the nature of Karma Yoga, Gyan Yoga, Bhakti
Yoga, Raja Yoga, and Ashtanga Yoga; TM-Sidhi practice, and Yoga and world peace. (4 credits)

**MVS 534 Readings in Vedic Literature**
In this course, students read the Vedic literature in the original Devanāgarī script. They keep a journal of their experiences while reading and after reading. Texts include the Bhagavad-Gita, Ramayana, Upanishads, and other aspects of the Vedic literature. This course includes the option for extended practice of the Transcendental Meditation and TM-Sidhi programs. (variable credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course)

**MVS 540 Principles of Maharishi Vedic Science: The Self-Referral Dynamics of Consciousness**
In this course, students discover the fabrics of immortality in their own physiology. Topics include: the self-interacting dynamics of consciousness, the Constitution of the Universe, the forty aspects of the Veda and Vedic literature, Maharishi’s *Apaurusheya Bhashya*, *Rik Veda*, and Vedic Devata in the human physiology. (2–4 credits)

**MVS 544 Principles of Maharishi Vedic Science in Physics**
This course demonstrates how the historical development of unified quantum field theory has been intimately concerned with resolving the apparent opposition between observer and observed. In this context, the student can readily understand how Maharishi Vedic Science completes and enriches the most sophisticated discoveries of advanced physics. (2–4 credits)

**MVS 548 Academic Writing: Harnessing the Deepest Level of Language to Express Total Knowledge**
This course is structured to develop and refine students’ writing abilities. During the course, your will rewrite a paper from your course work, bringing it up to a publishable quality. (variable credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course)

**MVS 552 Enlightenment: States of Higher Development in Maharishi Vedic Science**
This course investigates Maharishi’s description of higher states of consciousness that arise naturally and spontaneously through practice of the Transcendental Meditation and TM-Sidhi programs. Personal experience, scientific research, and the record of ancient Vedic texts are used to understand higher states of consciousness. (2–4 credits)
MVS 553 Discovery of Veda and Vedic Literature in Human Physiology: How Consciousness Creates Your World — Physiology Is Consciousness
In this course, students learn Maharishi’s unique insights into the structuring dynamics of the Vedic literature as presented in the six Vedanga, and the criteria and methods of gaining reliable knowledge, both intellectually and experientially, as revealed by the six Upanga. This course illuminates the path to enlightenment and leads to an increasingly refined understanding and experience of the ultimate nature of reality. (2–4 credits)

MVS 555 Engaging Nature’s Government
This course will examine how any nation can create a problem-free, prevention-oriented government on a par with the Government of Nature. Topics will include: the structure and function of the total potential of Natural Law, and how Natural Law can be engaged to bring ideal government to every nation; the significance of collective consciousness and its effect on government; the role of the Global Country of World Peace; and scientific research on Vedic technologies that align individual and national consciousness with the infinite intelligence and creative power of Nature’s Government, which administers the universe with perfect order. (3–4 credits)

MVS 559 Approaches to Knowledge: Modern Science and Maharishi Vedic Science
This course examines the role of science in the acquisition of knowledge. It considers the basic components of the scientific method, the fundamentals of logic and important issues in the philosophy of science including the strengths and limitations of both objectivity and subjectivity. This is then compared and contrasted with the integrative approach of Maharishi Vedic Science, which offers study and research in the field of pure consciousness, the ultimate reality of one’s own Self. (4 credits)

MVS 570 TM Program Lecture Training and Checker Training
During the lecture portion of this course, students learn the four parts of the standard lecture for introducing prospective students to the scientifically validated benefits of regular practice of the Transcendental Meditation technique. During the checker training portion of this course, students are trained in the procedure of how to check the correct practice of the Transcendental Meditation technique. This course can also include additional preparation for the TM Teacher Training Course. (variable units) Prerequisite: consent of instructor

MVS 573 Vedic Knowledge for Everyone
This course will focus on the principles of fulfilling the purpose of education. The topics covered in the course will include: definition and scope of Maharishi’s Vedic Science, unfolding complete knowledge through analysis and synthesis, Maharishi’s Absolute Theory of Education, and comparison of modern science with Maharishi’s Vedic
Science. Readings will be drawn from: *Maharishi Vedic University* and *Constitution of India*. (4 credits)

**MVS 574 Automation in Administration**
This course will focus on the principles of perfect administration. The topics covered in the course will include: the origin of Law and its evolution, the managing intelligence of Nature, the science and art of management, automation in administration, creativity in administration, absolute administration, Maharishi’s Absolute Theory of Government, total perspective of rulership, administration through Natural Law, and Constitution of the Universe. Readings will be drawn from: *Maharishi University of Management* and *Maharishi’s Absolute Theory of Government*. (4 credits)

**MVS 575 Sovereignty in Invincibility**
This course will focus on a new world order of peace. The topics covered in the course will include: Maharishi’s Absolute Theory of Defense, the formula for an effective defense, the source of order in Nature, physics of invincibility, chemistry of invincibility, mathematics of invincibility, physiology of invincibility, and a vision of invincible order of Nature. Readings will be drawn from: *Maharishi’s Absolute Theory of Defense*. (4 credits)

**MVS 576 The Structuring Dynamics of the Human Physiology**
This course will focus on the discovery that the laws that construct the human physiology are the same as those that give structure to the Vedic Literature, and to the administering intelligence of Natural Law described in the Vedic Literature as Vedic Devatā. The topics covered in the course will include: Upa-Veda in the physiology, Brāhma in the physiology, Prātishākhya in the physiology, and Vedic Devatā in the human physiology. Readings will be drawn from: *Human Physiology: Expression of Veda and the Vedic Literature*. (4 credits)

**MVS 577 Rāmāyan in the Human Physiology**
This course will focus on the *Rāmāyan* in the structure and function of the human physiology. The topics covered in the course will include: the Vedic Devatā in the *Rāmāyan*, the principle characters of the *Rāmāyan* and their physiological roles, a summary of the 7 chapters of the *Rāmāyan*, and the rule of Rām—Rām Rāj. Readings will be drawn from: *Rāmāyan in Human Physiology*. (4 credits)

**MVS 578 Dawn of Total Knowledge**
This course will focus on the field of Total Knowledge. The topics covered in the course will include: vision of Total Knowledge, the Self-Referral dynamics of consciousness, all theories of modern science in one verse of Rk Veda, Vedic programs to make everything
perfect, Maharishi’s Vedic Science as ultra-modern science, and Maharishi’s Apaurusheya Bhāshya. Readings will include: Celebrating Perfection in Education. (4 credits)

**MVS 579 Capstone Writing Project**
During this course, students will develop and present a summative written paper that serves to integrate and complete the knowledge and experience gained from the Postgraduate Certificate in Maharishi Vedic Science. (4 credits)

**MVS 580 Practicum in Maharishi Vedic Technologies: Bringing Health and Wholeness to the Community**
Students expand and apply their growing knowledge of Maharishi Vedic Science by functioning as professional technicians delivering such programs as the Maharishi Vedic Approach to Health preventive health and rejuvenation programs. (variable credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course)

**MVS 581 Applied Research in Maharishi Vedic Science**
Students expand, express and apply their growing knowledge of Maharishi Vedic Science by functioning as professional exponents of Consciousness-Based Education, the educational system based on Maharishi Vedic Science. (variable credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course)

**MVS 582 Invincibility Research**
This course involves investigation into the nature of human consciousness, both in its pure form, as self-referral consciousness, and in its expressed values in thinking and activity. This investigation makes use of (1) daily personal experience of self-referral consciousness, (2) recording of daily experiences, and (3) monthly meetings to discuss the nature and implications of transcendental experiences for growth of higher states of consciousness. (1 credit — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course)

**MVS 585 Capstone — Celebrating Perfection in Education: Synthesizing the Year of Study and Preparing for the Future**
In this course, students review their growth and understanding of higher states of consciousness by writing two papers: a personal narrative of their experience during their course of study in the MA program, and an academic paper reviewing the main principles of Maharishi Vedic Science they have learned in their coursework. In addition, students
view tapes of Maharishi on education and give written and oral feedback on their educational experience in the MA program. (4 credits)

**MVS 588 Presentations to All Levels of Society: Knowledge Becomes Useful When Applied in Action**

This course gives students the opportunity to integrate knowledge gained in the program by making presentations on Maharishi Vedic Science in different areas of society. Areas may include business, education, health, government, defense, rehabilitation, or agriculture. Students present a written report on their project. (variable credits)  
*Prerequisites*: consent of the Department faculty and the Academic Standards Committee

**MVS 597 Topics in Maharishi Vedic Science: Investigating the Infinity of Points within Wholeness**

Students explore topics in Maharishi Vedic Science under the guidance of university faculty and eminent Vedic scholars. *Topics may include*: the Maharishi Jyotish program, the Maharishi Vedic Approach to Health program, Vedic engineering, and Maharishi Gandharva Veda music. (variable credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course)

**MVS 599 Directed Study**

(variable credits) *Prerequisite*: consent of the Department faculty

**MVS 5010 Introduction to Reading the Vedic Literature**

This course will provide an overview of the Vedic Literature as described in Maharishi Vedic Science, an introduction to the research of Dr. Tony Nader on human physiology as the expression of Veda and the Vedic Literature, the nature and value of reading the Vedic Literature in Devanāgarī for the sound value, a review of proper pronunciation, the importance of keeping a detailed ‘Journal of Experiences,’ and the significance of identifying patterns of experience. (2–4 credits)

**MVS 5011 Shikshā: Enlivening the Expressing Quality of Pure Intelligence**

Shikshā represents the quality of expression of pure consciousness. In the physiology, it corresponds to the structures that compute and express the internal aspects of the physiology, such as temperature, pressure, etc. Students in this course will read the Shikshā texts in the Devanāgarī script. In addition to their focus on experiences during reading, they will learn about Shikshā in the context of Maharishi Vedic Science and Dr. Tony Nader’s (MARR) research on Shikshā in the physiology. (4 credits)
MVS 5012 Jyotish: Enlivening the All-Knowing Quality of Intelligence
Jyotish is the value of the Vedic Literature that sees the past, connects with the present, and foresees the future. In this class students will read Bṛhiat Pārāshara Horā Shāstra in the Devanāgarī script. In addition to their primary focus on experiences during reading, students will learn about Jyotish in the context of Maharishi Vedic Science and Dr. Tony Nader’s research on the expression of Jyotish in various structures of the brain physiology. (4 credits)

MVS 5013 Yoga: Enlivening the Unifying Quality of Intelligence
Yoga is the unified and unifying quality of pure consciousness. In this class, students will read both the Patanjali Yoga Sūtra in the Devanāgarī script as well as the Bhagavad-Gītā, the two primary texts of Yoga philosophy. In addition to their focus on experiences during reading, students will learn about Yoga in the context of Maharishi Vedic Science and Professor Tony Nader’s research on Yoga in human physiology. (4 credits)

MVS 5014 Vedānt: Enlivening the Lively Absolute Quality of Intelligence
Vedānt represents the holistic quality of self-referral consciousness. In the physiology, Vedānt is expressed by the totality of the integrated functioning of the nervous system and the whole physiology. In this course, students will read the Brahm Śūtra of Bādarāyaṇa, selections from the Bhagavad Gītā, Kaṭha Upanishad, Māṇḍūkya Upanishad, and Taithirīya Upanishad in the Devanāgarī script. In addition to their primary focus on experiences during reading, students will learn about Vedānt in the contexts of Maharishi Vedic Science and Professor Tony Nader’s research on Vedānt in human physiology. (4 credits)

MVS 5015 Sthāpatya Veda: Enlivening the Establishing Quality of Pure Intelligence
Sthāpatya Veda is the science of structure at the individual and cosmic levels. Sthāpatya Veda can be located in human anatomy within its elaborate system of structures, and their orientation and divisions. In this course, students will read Mānasāra Vāstu Shāstra and selections from the Āgamas in the Devanāgarī script. In addition to their primary focus on experiences during reading, students will learn about Sthāpatya Veda in the contexts of Maharishi Vedic Science and Professor Tony Nader’s research on Veda and the Vedic Literature in human physiology. (4 credits)

MVS 5016 Charak Saṁhitā: Enlivening the Balancing Quality of Intelligence
Charak Saṁhitā gives the total knowledge required to maintain the holistic balance of the functioning of mind and body. Its basic theme is the elimination of the sense of separation between the unbounded pure Self and the limited expressions of the material world around us. Charak Saṁhitā corresponds to the cell nucleus in the physiology. In addition to their primary focus on experiences during reading Charak Saṁhitā in the
Devanāgarī script, students in this course will gain knowledge about Charak Saṁhitā in the contexts of Maharishi Vedic Science and Dr. Tony Nader’s research on Veda and the Vedic Literature in the human physiology. (4 credits)

MVS 5017 Upanishad: Enlivening the Transcending Quality of Intelligence
Upanishad shows everything to be Ātmā, or Self. In the physiology, Upanishad corresponds to the channels that allow the most refined levels of sensory experience to blossom into the ultimate experience of higher states of consciousness. Students in this course will read the principle Upanishads in the Devanāgarī script. In addition to their primary focus on experiences in reading, students will learn about Upanishad in the contexts of Maharishi Vedic Science and Dr. Tony Nader’s research on Veda and the Vedic Literature in human physiology. (4 credits)

MVS 5018 Itihās: Enlivening the Blossoming of Totality Quality of Intelligence
Itihās illustrates the total range of human experience through living examples. Rāmāyaṇa is one of its two major divisions. In addition to their primary focus on reading Rāmāyaṇa in the Devanāgarī script, students in this course will learn about Itihās and Rāmāyaṇa in the contexts of Maharishi Vedic Science and Professor Tony Nader’s research on the human physiology. (4 credits)

MVS 5019 Purāṇ: Enlivening the Ancient and Eternal Quality of Intelligence
Purāṇ represents the structure of intelligence in terms of the display of the total potential of the process of observation, from individual potential to cosmic potential. In the physiology, Purāṇ is found in the structures that monitor and process the inputs and outputs of the central nervous system. Students in this course will read the Bhāgavat Purāṇ in the Devanāgarī script. In addition to their primary focus on reading the Bhāgavat Purāṇ, students will learn about Purāṇ in the contexts of Maharishi Vedic Science and Professor Tony Nader’s research on the human physiology. (4 credits)

MVS 5010 Capstone Thesis on the Effects of Reading the Vedic Literature
In this course, students will synthesize the experiences and knowledge that they have gained in their courses on reading the Vedic Literature by developing and writing a thesis about the effects of reading the Vedic Literature. (4 credits)

MVS 601 Special Topics 1
This course allows students the opportunity to study a topic within Maharishi Vedic Science in depth, such as the theme of self-referral in Maharishi Vedic Science or the idea of a subjective science. (Note: The contents of this course will vary depending on the needs of the students, the research interests of the available faculty, and the latest
developments in Maharishi’s presentations of Maharishi Vedic Science. In all cases the course will feature in-depth study of books by Maharishi.) (variable credits)

**MVS 602 Special Topics 2**
This course allows students the opportunity to study a topic within Maharishi Vedic Science in depth, such as the theme of self-referral in Maharishi Vedic Science or the idea of a subjective science. (Note: The contents of this course will vary depending on the needs of the students, the research interests of the available faculty, and the latest developments in Maharishi’s presentations of Maharishi Vedic Science. In all cases the course will feature in-depth study of books by Maharishi.) (variable credits)

**MVS 603 Special Topics 3**
This course allows students the opportunity to study a topic within Maharishi Vedic Science in depth, such as the theme of self-referral in Maharishi Vedic Science or the idea of a subjective science. (Note: The contents of this course will vary depending on the needs of the students, the research interests of the available faculty, and the latest developments in Maharishi’s presentations of Maharishi Vedic Science. In all cases the course will feature in-depth study of books by Maharishi.) (variable credits)

**MVS 604 Special Topics 4**
This course allows students the opportunity to study a topic within Maharishi Vedic Science in depth, such as the theme of self-referral in Maharishi Vedic Science or the idea of a subjective science. (Note: The contents of this course will vary depending on the needs of the students, the research interests of the available faculty, and the latest developments in Maharishi’s presentations of Maharishi Vedic Science. In all cases the course will feature in-depth study of books by Maharishi.) (variable credits)

**MVS 605 Seminar on Philosophy of Science and Scientific Research on Maharishi’s Technologies of Consciousness**
In this seminar, students study and evaluate the main contemporary approaches to the principles, methods, and applications of modern science and discuss the contributions of Maharishi Vedic Science to solving outstanding issues in philosophy of science. They then apply the integrated standards of Maharishi Vedic Science and modern science to the main avenues of research on the technologies of Maharishi Vedic Science, including those in which they will be doing their dissertation research projects. They also practice communicating these outcomes in a manner that would be comprehensible to scholars at any university in the world. (variable credits)
MVS 611 Research Methods: Learning the Self-Referral, Self-Correcting Nature of Science

Students survey basic approaches to research such as quantitative, qualitative, historical, clinical, and philosophical methods of analysis. Topics include: logical and practical considerations in experimental design and measurement, writing literature reviews, and selecting research topics, as well as research ethics and such non-experimental methods as computer simulation, textual analysis, and survey research. (variable credits)

MVS 621 Specialized Research Paper: Testing and Validating Models in Maharishi Vedic Science

In this course, students gain experience in conducting research and writing a publishable paper investigating models in Maharishi Vedic Science. The final paper should be of suitable scientific quality that it could be submitted for publication in a peer-reviewed journal. (variable credits)

MVS 630 Readings in Vedic Literature: Accelerate Growth to Enlightenment

In this course, students read texts of Vedic literature for the sound value, enjoying the benefits in consciousness and in physiology. Texts include the Bhagavad-Gita, Ramayana, and selected Upanishads. (variable credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course)

MVS 635 The Discovery of Veda and Vedic Literature in Human Physiology: The Individual Is Cosmic

This course studies the historic discovery of the Veda and Vedic literature in human physiology, brought to light by Professor Tony Nader, MD, PhD, under the guidance of Maharishi. Students learn:

• how the intelligence of nature, as expressed in the Veda and Vedic literature, forms the basis of the structure and function of the physiology, and

• how human physiology forms a perfect replica of nature’s intelligence, the Constitution of the Universe.

This knowledge, together with the technologies that arise from it, represents the complete knowledge of perfect health — and the key to perfection in every area of life. (variable credits)

MVS 670 Advanced Analysis and Synthesis of Total Knowledge

In this course, students will master the Self-referral dynamics of pure consciousness in terms of the structure and function of the Samhita of Rishi, Devata and Chhandas; Rik and Ak; Aknim Ile; the Richo Ak-kshare verse of Rik Veda; the dynamics of the Gap; Maharishi’s Apaurusheya Bhashya; the relationship between name and form in the Veda;
the four Vedas; and the relationship between the silent dynamics of consciousness and
the unified field of quantum field theory. (8 credits)

**MVS 671 Maharishi’s Insight into the Veda and Vedic Literature: Fabrics of Immortality**
In this course, students study Maharishi’s insights into the forty branches of the Veda and
Vedic literature. Students view videotapes that Maharishi has made on the Vedic
literature, including the Veda, Vedanga, Upanga, Upaveda, Brahmana, and Pratishakhya.
Special emphasis is given to Vedanta. Students learn many of the Vedic Expressions that
Maharishi has taught from the Vedic literature, and they read the Vedic literature in
Sanskrit, creating profound brain coherence. (variable credits)

**MVS 672 Mastering Veda and Vedic Literature in the Human Physiology**
In this course, students explore through subjective and objective means of gaining
knowledge Raja Raam’s connections between the structuring dynamics of the Vedic
literature and the human physiology. This course gives students the reality that they are
cosmic and leads to an increasingly refined understanding and experience of the ultimate
nature of reality. (variable credits)

**MVS 674 Peace-Creating Professionals: Applying Maharishi Vedic Science to Society**
In this course, students learn how to create professional presentations and structure
lectures that effectively demonstrate the applied value of Maharishi Vedic Science to
solve individual, national and global problems. Students will create presentations that
will include research on current issues in governmental administration; finance and
industry; economic inequities; education; physical, mental and societal health; crime and
rehabilitation; agriculture; city planning; science and technology; homeland security;
ethnic and religious tensions; international relations and the need for permanent world
peace. (variable credits)

**MVS 680 Maharishi Vedic Science Seminar: Enlivening the Collective Understanding of Concepts in Maharishi Vedic Science**
The Maharishi Vedic Science graduate seminar includes a review of current research
topics in the major disciplines and their relationship to the principles of Maharishi Vedic
Science. Each session focuses on a particular discipline and its relationship to Maharishi
Vedic Science and is led by senior graduate faculty. (0.5–1 credit — repeated each
semester)
MVS 682 Advanced Practicum in Consciousness-Based Education: Structuring Knowledge in the Consciousness of the Student
This course gives students the opportunity to integrate research skills and teaching skills by assisting the faculty in teaching a Forest Academy — a two-week period of study of particular themes of Maharishi Vedic Science. As an alternate fieldwork project, students may arrange, prepare, and give a series of presentations in at least two applied fields, such as education, government, business, rehabilitation, and the health professions. (2 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course)

MVS 691 Preparation for Qualifying Examination: Preparing a Fertile Ground for Demonstration of the Knowledge You Have Gained
This course provides the time necessary to prepare for the qualifying examination, which demonstrates research competence. It may be in the form of a research proposal, or in another form at the discretion of the program faculty. (variable credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Prerequisite: successful completion of the core curriculum

MVS 693 Faculty Development Seminar and Oral Qualifying Exam
(variable credits)

MVS 695 Faculty Development Seminar
(variable credits)

MVS 698 Directed Research: Investigating the Laws of Nature Responsible for Life Around Us
(variable credits) Prerequisites: consent of the Department faculty and the Academic Standards Committee

MVS 699 Directed Study: Investigation into Fundamental Principles in Nature
(variable credits) Prerequisite: consent of the Department faculty

MVS 700 Preparation of Dissertation Proposal: Structuring the Foundation of Your Dissertation Research
Having passed to doctoral candidacy, students prepare a proposal for a doctoral dissertation for acceptance by their major professor and dissertation guidance committee. (8 credits per semester — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Prerequisites: PhD candidate status and consent of the dissertation advisor
MVS 701 Dissertation Research: Scholarly Investigation into Models in Maharishi Vedic Science

Students conduct original research and prepare their dissertations during their third and fourth years in the program. (8 credits per semester — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) **Prerequisites:** approval of the dissertation proposal and consent of the dissertation committee
INTRODUCTION

Mathematics is the exact study of abstract patterns and relationships. The objects that mathematicians study — such as numbers, operations, shapes, and relationships — are abstract and underlie all physical reality but have no physical reality themselves, existing only in the consciousness of the mathematician. Thus, mathematicians study the functioning of intelligence itself.

In their work, mathematicians refer back to the principles of intelligence in their own consciousness and are able to discover the same principles of order and intelligence that govern all areas of life. Thus, mathematics is able to provide the basic language for all other sciences and has applications in every area of life.

Students who study mathematics at Maharishi University of Management learn to see the connections between the functioning of their own intelligence and mathematical knowledge. They acquire the quantitative skills, problem-solving abilities, and clarity of thinking that provide a basis for success and leadership in technology-based careers. Graduates of the program in mathematics are prepared to enter a wide range of careers or continue their education with graduate or professional studies.

PROGRAMS OFFERED

BS in Mathematics

Mathematics and Computer Science Track
This track combines mathematics with courses in computer science and a senior project in computer science.
• Students are prepared for a career in a technical area or, with careful attention to electives and other courses, for graduate study in business and other professional or scientific areas.

• U.S. students completing this track of the mathematics major with a GPA in the CS courses of 3.3 or above are eligible to apply to Maharishi University of Management’s Master of Science in Computer Science and may be able to complete it in just over a year. International students intending to take the Compro loan for the MS CS need to attain a GPA in the CS courses taken as an undergraduate of 3.6 or above. Consult the Department of Computer Science for full information.

Minor in Mathematics

The minor in mathematics is for students who wish to have knowledge of mathematics to support their study in computer science or any of the natural or applied sciences.

SPECIAL FEATURES

• Students gain an understanding of the parts of mathematics in relation to each other, to themselves, and to the overall body of mathematics. This integrated approach to mathematics is relevant, lively, interesting, and fulfilling for students.

• Even in their first courses, students begin to appreciate the full range of mathematics, from the deepest foundational levels to real-world applications in computer science, physics, engineering, biology, economics, business, and art.

• All courses emphasize conceptual understanding and logical justification, not just memorization of mathematical procedures.

• Students regularly use a computer laboratory to clarify principles and develop applications in many of their classes.

• The department offers a friendly and nurturing environment for all students.

• All faculty are outstanding teachers. One has received an award for outstanding teaching from the Mathematical Association of America.

• Students may present their own research papers at the annual meeting of the Iowa Section of the Mathematical Association of America. Several students have received Outstanding Student Paper awards.

• Students participate in national and regional mathematics competitions, such as the annual Putnam Competition. Two teams have received Honorable Mention for their creativity and teamwork in the national Competition in Mathematical Modeling.

• The Math Club helps students sharpen their problem-solving abilities and encourages them to enter mathematical competitions.
• Research shows that educational techniques used at the University produce clearer, more orderly thinking, necessary for success in mathematics—and for later careers.

DEPARTMENTAL REQUIREMENTS

Entrance Requirements for the Bachelor of Science Degree in Mathematics and the Minor in Mathematics

Before entering the major in mathematics or the minor in mathematics, students must successfully complete Functions and Graphs 2 (MATH 162). It is also highly recommended that students complete College Composition 2 (WTG 192) beforehand as well.

Students entering the Mathematics and Computer Science Track of the major are advised (but not required) to take CS 105 to fulfill their CCTS requirement (preferably before taking CS 201).

On arrival at MUM, all students (including transfer students) who intend to enter a major or minor in mathematics take the Mathematics Placement Assessment and, if they place lower than Math 162, must complete all necessary mathematics courses up through Math 162 before taking courses in the major or minor. The courses up through Math 162 may add one or two semesters to the program, depending on the placement.

Students may be allowed to waive mathematics courses at the 200 level or above, computer science courses, and physics courses that are equivalent to courses in the major or minor and have been taken recently at another qualified university with a grade of B or above. These courses replace courses required for the major or minor. Decisions about what constitutes “recently” will be made on a case-by-case basis, but is usually a maximum of three years ago. A maximum of half the credits required for the major may be replaced in this way. Math 162 Functions and Graphs 2 may be waived if an equivalent course is passed with a B or above at another qualified university at most one semester ago. Such courses that were taken too long ago, or for which the grade was less than B, may be waived on passing a placement assessment, if a placement assessment is available.

Students are initially admitted into the Computer Science Track of the mathematics major conditionally and must complete CS201, CS203, and CS221 before being officially accepted. Acceptance depends on attaining an overall GPA of at least 2.5 in these three courses. If necessary, each course may be repeated at most once to bring the GPA up to this level.
Graduation Requirements for the Bachelor of Science Degree in Mathematics

To graduate with a BS in mathematics, students must successfully complete all requirements for the bachelor’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) As part of the requirements for the Mathematics and Computer Science Track of the BS in mathematics, all students must complete 60–64 credits of required courses, as follows:

**16 credits of required courses:**
- MATH 281 Calculus 1
- MATH 282 Calculus 2
- MATH 283 Calculus 3
- MATH 286 Linear Algebra 1

Students in the Mathematics and Computer Science Track must also complete:

**44 credits of required courses:**
- Math 272 Discrete Math
- Math 351 Probability
- CS 201 Procedural Programming
- CS 203 Object-Oriented Programming
- CS 221 Data Structures
- CS 321 Introduction to Algorithms
- CS 363 Computer Organization and Architecture
- CS 390 Fundamental Programming Practices
- CS 401 Modern Programming Practices
- CS 422 Database Systems or CS 472 Web Application Programming or CS485 Theory of Computation
- CS 425 Software Engineering

*plus a Senior Project consisting of either:*
- CS 496 Software Development Senior Project, when it is offered
  or
- If CS 496 is not offered, students may work one-on-one with a faculty member in the department on a Senior Project and receive credit for CS 496. This option is only possible if a faculty member is available
  or
- Students who are in good standing regarding the CS GPA requirement (see below), may opt to develop the project in the required course CS425 Software Engineering into a Senior Project without the need to take CS496 Software Development Senior Project
Students who have been accepted into the Mathematics and Computer Science Track must maintain a cumulative GPA for their computer science courses of 2.8 or above. If, at the end of any semester (except the last), this GPA drops below 2.8, students have until the end of the following two Computer Science courses to bring it back up to 2.8. If they do not succeed in bringing it back up to 2.8 by then, they must leave the Track.

In order to be awarded the BS MATH in the Mathematics and Computer Science Track at the end of the last semester, a student’s overall GPA for all computer science courses taken must stand at 2.5 or above. However, note that in order to proceed from this Track of the BS MATH to the MS in Computer Science at MUM, this GPA must be 3.3 or above.

In their final year, students in the Mathematics and Computer Science Track are required to:

- Take an assessment test to be chosen by the Department of Mathematics and submit the results to the Department of Mathematics.

Note: The course Math 285 Introduction to Applied Statistics is highly recommended but not required.

Note: In order to enroll in any computer science course at the level of CS 400 or above, all prerequisite courses for that course must be passed with a grade of B or above. Some 500 level computer science courses have even higher prerequisite requirements (see Course Descriptions in the Computer Science section of this Catalog). However, undergraduate students are not permitted to take 500 level computer science courses, unless their academic performance in all areas they have studied so far is exceptionally high.

**Graduation Requirements for the Minor in Mathematics**

To graduate with a minor in mathematics, students must successfully complete 20 credits of mathematics courses numbered 267 or higher, *plus a Portfolio.*

Students submit a portfolio of important work and projects from the courses in their minor, together with an essay (minimum 4 pages) connecting this work in mathematics with their major and with principles from the Science and Technology of Consciousness.
Mathematics Placement and Mathematics Requirements for All Students

Many majors have mathematical prerequisites or requirements. During the first two weeks after arrival, undergraduate students seeking a major requiring math courses or math prerequisites are placed at a particular level of mathematics. This usually involves taking a placement test in mathematics. Students may not enroll for any mathematics course or for any course with a mathematics prerequisite until placement is completed at the required level. A placement test expires after 3 semesters; that is, after 3 semesters, it can no longer be used as prerequisite for a course, although it may still be used to satisfy a major course requirement. For a complete description of the placement program in mathematics, please see “Mathematics Placement Policies” and “General Education Requirements” in the subsection “Bachelor’s Degree Requirements” of the section “ACADEMIC POLICIES” near the end of this catalog.

COURSES

MATH 050 Basic Mathematics Review: Locating the Basis of Mathematics in the Self-Interacting Dynamics of Consciousness

Students do not directly enroll for this course. The sole purpose of this course is as follows. Students who enroll for Math 051 Basic Mathematics for the first time, but do not complete it in one block, do not receive a failing grade for Math 051, but receive instead a grade of P (pass) or NP (no pass) for this review course, Math 050. If they have completed at least 50% of the requirements for Math 051, they receive a grade of P (pass) in Math 050 for that block and are allowed to enroll in Math 051 for a second block. If they have completed less than 50% of the requirements for Math 051, they receive a grade of NP (no pass) in Math 050 for that block. If, by the end of the second block, a student has not completed the requirements for a passing grade in Math 051, they receive a grade of NC (no credit) for Math 051. (4 credits — does not count toward the total credits required for a BA or BS)

MATH 051 Basic Mathematics: Locating the Basis of Mathematics in the Self-Interacting Dynamics of Consciousness

Arithmetic is the study of patterns, relations, and operations on numbers. Topics include: the arithmetic of integers, fractions, decimal fractions, ratios, and percents, with an emphasis on applications, including geometry. Instruction consists of a combination of computer software and classroom activities.

Students who finish all topics of MATH 051 before the end of the block then proceed to topics of MATH 152 Elementary Algebra, and then to topics of Math 153 Intermediate Algebra, or other topics, as appropriate. At the end of the block, they are given a grade for the highest-level course that they have completed satisfactorily (MATH 051, MATH 152, or MATH 153). MATH 051 is graded P (pass) or NP (no pass), while Math 152 and
Math 153 are given a letter grade. Financial Aid and other University policies require that students study for the entire block, so students are not allowed to drop out of the course just because they have finished the topics of a particular level. They are expected to continue with appropriate math topics and must complete the rest of the block satisfactorily.

On the other hand, students who enroll for Math 051 Basic Mathematics for the first time, but do not complete it in one block, do not receive a failing grade for Math 051, but receive instead a grade of P (pass) or NP (no pass) for the corresponding review course, Math 050. If they have completed at least 50% of the requirements for Math 051, they receive a grade of P (pass) in Math 050 for that block and are allowed to enroll in Math 051 for a second block. But, if they have completed less than 50% of the requirements for Math 051, they receive a grade of NP (no pass) in Math 050 for that block. If, by the end of the second block, a student has not completed the requirements for a passing grade in Math 051, they receive a grade of NC (no credit) for Math 051. (4 credits, does not count toward the total credits required for a BA or BS)

**MATH 130 CCTS Quantitative Reasoning: Developing Precision and Logic, Two Qualities of Consciousness**
Quantitative reasoning is a critical tool in the modern world for analyzing and interpreting quantitative information arising in the context of real-world problems and issues, for example, in financial issues such as budgeting, taxation, loans, investment returns, the effects of inflation, even choosing cell phone plans. Students will develop a repertoire of number-related skills for assessing the reliability of data found in the media and elsewhere and for arriving at their own conclusions from these data. **Topics include:** estimation, units and conversion, basic geometric concepts, simple descriptive statistics, constructing and interpreting graphs, linear and exponential growth, and ratios and percentages. Students will also develop their ability to calculate and present meaningful information using spreadsheets. (4 credits)

**MATH 147 Elementary Algebra Review: Using Variables to Manage All Possible Numbers at the Same Time and Solve Practical Problems**
Students do not directly enroll for this course. The sole purpose of this course is as follows. Students who enroll for Math 152 Elementary Algebra for the first time, but do not complete it in one block, do not receive a failing grade for Math 152, but receive instead a grade of P (pass) or NP (no pass) for this review course, Math 147. If they have completed at least 50% of the requirements for Math 152, they receive a grade of P (pass) in Math 147 for that block and are allowed to enroll in Math 152 for a second block. If they have completed less than 50% of the requirements for Math 152, they receive a grade of NP (no pass) in Math 147 for that block. If, by the end of the second block, a
student has not completed the requirements for a passing grade in Math 152, they receive a grade of NC (no credit) for Math 152. (4 credits)

**MATH 149 Intermediate Algebra Review: Using Variables to Manage All Possible Numbers at the Same Time and Solve Practical Problems**

Students do not directly enroll for this course. The sole purpose of this course is as follows. Students who enroll for Math 153 Intermediate Algebra *for the first time*, but do not complete it in one block, do not receive a failing grade for Math 153, but receive instead a grade of P (pass) or NP (no pass) for this review course, Math 149. If they have completed at least 50% of the requirements for Math 153, they receive a grade of P (pass) in Math 149 for that block and are allowed to enroll in Math 153 for a second block. But if they have completed less than 50% of the requirements for Math 153, they receive a grade of NP (no pass) in Math 149 for that block. If, by the end of the second block, a student has not completed the requirements for a passing grade in Math 153, they receive a grade of NC (no credit) for Math 153. (4 credits)

**MATH 152 Elementary Algebra: Using Variables to Manage All Possible Numbers at the Same Time and Solve Practical Problems**

The infinitely flexible language of algebra is used to quantify and model mathematical patterns and relationships. **Topics include**: operations on algebraic expressions, linear models and equations, the coordinate plane, inequalities, factoring, and simple quadratic equations. Instruction consists of a combination of computer software and classroom activities.

Students who finish all topics of MATH 152 before the end of the block then proceed to topics of MATH 153 Intermediate Algebra, and then to other topics, as appropriate. At the end of the block, they are given a letter grade for the highest-level course that they have completed satisfactorily (MATH 152 or MATH 153). Financial Aid and other University policies require that students study for the entire block, so students are not allowed to drop out of the course just because they have finished the topics of a particular level. They are expected to continue with appropriate math topics and must complete the rest of the block satisfactorily.

On the other hand, students who enroll for Math 152 Elementary Algebra *for the first time*, but do not complete it in one block, do not receive a failing grade for Math 152, but receive instead a grade of P (pass) or NP (no pass) for the corresponding review course, Math 147. If they have completed at least 50% of the requirements for Math 152, they receive a grade of P (pass) in Math 147 for that block and are allowed to enroll in Math 152 for a second block. But if they have completed less than 50% of the requirements for Math 152, they receive a grade of NP (no pass) in Math 147 for that block. If, by the end of the second block, a student has not completed the requirements for a passing grade in
Math 152, they receive a grade of NC (no credit) for Math 152. (4 credits) Prerequisite: Math 051

MATH 153 Intermediate Algebra: Using Variables to Manage All Possible Numbers at the Same Time and Solve Practical Problems
This course extends Elementary Algebra to develop further algebraic models. Topics include: systems of linear equations, quadratic equations, polynomials, rational and radical expressions and equations, and graphing in the coordinate plane. Instruction consists of a combination of computer software and classroom activities.

Students who enroll for Math 153 Intermediate Algebra for the first time, but do not complete it in one block, do not receive a failing grade for Math 153, but receive instead a grade of P (pass) or NP (no pass) for the corresponding review course, Math 149. If they have completed at least 50% of the requirements for Math 153, they receive a grade of P (pass) in Math 149 for that block and are allowed to enroll in Math 153 for a second block. But if they have completed less than 50% of the requirements for Math 153, they receive a grade of NP (no pass) in Math 149 for that block. If, by the end of the second block, a student has not completed the requirements for a passing grade in Math 153, they receive a grade of NC (no credit) for Math 153. (4 credits) Prerequisite: MATH 152

MATH 161 Functions and Graphs 1: Name and Form — Locating the Patterns of Orderliness That Connect a Function with Its Graph and Describe Numerical Relationships
A mathematical function quantifies the relationship between two related quantities and can be used to model change. Functions and their graphs are essential to all branches of mathematics and their applications. Topics include: domain and range, average rate of change, graphs, functions (linear, power, exponential, logarithmic, and quadratic), and applications. (4 credits) Prerequisite: MATH 153

MATH 162 Functions and Graphs 2: Name and Form — Learning to Relate the Shape of a Graph to Its Corresponding Function
A mathematical function quantifies the relationship between two related quantities and can be used to model change. Functions and their graphs are essential to all branches of mathematics and their applications. Topics include: trigonometry, algebra of functions, compositions and inverses of functions, functions (trigonometric, power, polynomial, and rational), applications, and an introduction to vectors. (4 credits) Prerequisite: MATH 161

MATH 170 Mathematics for Sustainable Living: Knowledge is for Action
This course is designed especially for students entering the major in Sustainable Living. Topics are drawn from college algebra, geometry, trigonometry, functions, and graphs,
and these topics are related to problems in Sustainable Living such as landscaping, heat loss, solar and wind energy, and water management. (4 credits) \textit{Prerequisite:} MATH 152

**MATH 200 CCTS Mathematics and Infinity — Exploring the Full Range of Mathematics and Seeing Its Source in Your Self**

Mathematics takes place in the imagination, in consciousness, unlimited by finite measuring instruments, by the senses, or even by the feelings. At the same time, mathematics has strict criteria for right knowledge. The power of mathematics lies in bringing infinity out into the finite and making it useful in everyday life — from deciding which bank offers the best return on money, to medical imaging, to designing textiles, to creating a work of art, to putting a man on the moon. In this course, students explore many different ways in which mathematics expresses, emerges from, and uses infinity and its self-interacting dynamics. They look at the foundation of mathematics in the infinitary processes of set theory, the universe of sets, different sizes of infinity, the continuum and its limit process, sequences and series, infinite replication, and applications of infinity in many areas of life. (4 credits)

**MATH 266 Geometry for the Artist: Applying Abstractions of Shape and Form to Create Beautiful Concrete Images**

Geometry, the study of shape and form, is an essential tool for the visual artist. \textit{Topics include:} symmetry, Euclidean and non-Euclidean geometry, perspective and projective geometry, and fractals. Materials fee: $10 (4 credits) \textit{Prerequisite:} ART, ED, ENG, MC & MVS majors only

**MATH 267 Geometry: From Point to Infinity — Using Properties of Shape and Form to Handle Visual and Spatial Data**

Geometry gives an understanding of shape, form, and structure that has many applications in mathematics, science, and technology. \textit{Topics include:} in-depth study of Euclidean and non-Euclidean geometries and their applications. (4 credits) \textit{Prerequisite:} MATH 162

**MATH 272 Discrete Mathematics: Unified Approaches to Managing Discrete Phenomena in Computer Science and Other Disciplines**

Discrete mathematics, the mathematical study of finite processes and discrete phenomena, is essential for computer science and for mathematics. \textit{Topics include:} logic and sets, relations and functions, vertex-edge graphs, recursion, and combinatorics. (Same as CS 272) \textit{This is a writing intensive course.} (4 credits) \textit{Prerequisite:} MATH 162
MATH 281 Calculus 1: Derivatives as the Mathematics of Transcending, Used to Handle Continuously Changing Quantities
Calculus, one of the most useful areas of mathematics, is the study of continuous change. It provides the language and concepts used by modern science to quantify the laws of nature and the numerical techniques through which this knowledge is applied to enrich daily life. Students gain a clear understanding of the fundamental principles of calculus and how they are applied in real-world situations. Topics include: limits, continuity, derivatives, applications of derivatives, integrals, and the fundamental theorem of calculus. (4 credits) Prerequisite: MATH 162

MATH 282 Calculus 2: Integrals as the Mathematics of Unification, Used to Handle Wholeness
Calculus, one of the most useful areas of mathematics, is the study of continuous change. It provides the language and concepts used by modern science to quantify the laws of nature and the numerical techniques through which this knowledge is applied to enrich daily life. Students gain a clear understanding of the fundamental principles of calculus and how they are applied in real-world situations. Topics include: techniques of integration, further applications of derivatives, and applications of integration. (4 credits) Prerequisite: MATH 281

MATH 283 Calculus 3: Unified Management of Change in All Possible Directions
Calculus, one of the most useful areas of mathematics, is the study of continuous change. It provides the language and concepts used by modern science to quantify the laws of nature and the numerical techniques through which this knowledge is applied to enrich daily life. Using the mathematics computer laboratory, students gain a clear understanding of the fundamental principles of calculus and how they are applied in real-world situations. Topics include: infinite series, functions of several variables, partial derivatives, the chain rule, multiple integrals, change of variables. (4 credits) Prerequisite: MATH 282

MATH 285 Introductory Applied Statistics Using Elementary Statistical Methods to Analyze Data
The essence of statistics is detecting structure, pattern, order, and unity from data and determining how reliable our conclusions are in a world of variability and uncertainty. This course is an introduction to basic statistical methods using the open-source software R. Topics include: exploring data graphically, numerically, and using distributions, in preparation for modeling the data; distinguishing good data from bad and hence good studies from bad; drawing conclusions from data using confidence intervals and tests of significance; and determining how reliable our conclusions are. (4 credits) Prerequisite: MATH 281
MATH 286 Linear Algebra 1: Linearity as the Simplest Form of Quantitative Relationship
Linear algebra is the study of linearity, the simplest form of quantitative relationship, and provides a basis for the study of many areas of pure and applied mathematics, as well as key applications in the physical, biological, and social sciences. Topics include: systems of linear equations, vector equations, matrices, the vector space R, together with its bases, linear transformations, and eigenvectors and eigenvalues. (4 credits) Prerequisite: MATH 282

Math 299 Directed Study
(variable credits) Prerequisite: consent of the Mathematics Department faculty

MATH 304 Calculus 4: Locating Silence within Dynamism
This course introduces vector calculus. Topics include: gradient, directional derivatives, maxima and minima, curvilinear coordinates, arc length, line integrals. (4 credits) Prerequisite: MATH 283

MATH 307 Linear Algebra 2: Unified Approaches to Linear Transformations
This course deepens and extends many of the topics covered in Linear Algebra 1; additional topics include: further study of eigenvalues and eigenvectors, the Cayley-Hamilton theorem, Jordan canonical form, inner-product spaces, orthogonality, and spectral theory. (4 credits) Prerequisite: MATH 286

MATH 308 Ordinary Differential Equations: Describing Evolving Systems and Predicting Their Future
The most concise mathematical expression that describes a continuously changing physical system is a differential equation, which uses derivatives to quantify all possible states of an evolving system in one equation. Topics include: first-order differential equations, second-order linear differential equations, power-series solutions, numerical methods of solution, and systems of differential equations. (4 credits) Prerequisites: MATH 283 and MATH 286

MATH 315 Special Topics in Mathematics
In this course, students investigate a specialized area of mathematics in depth. Topics vary. (4 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Prerequisite: consent of the Mathematics Department faculty
MATH 351 Probability: Locating Orderly Patterns in Random Events to Predict Future Outcomes
Probability provides precise descriptions of the laws underlying random events, with applications in quantum physics, statistics, computer science, and control theory. Topics include: permutations and combinations, axiomatic definition of probability, conditional probability, random variables, discrete and continuous distributions, expectation and variance, and the central limit theorem. (4 credits) Prerequisite: MATH 283

MATH 398 Junior Internship in Mathematics: Knowledge is for Action
(4 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Prerequisite: approval by the Mathematics Department faculty.

MATH 399 Directed Study
(variable credits) Prerequisite: consent of the Mathematics Department faculty

MATH 401 Practicum in Teaching College Mathematics: Knowledge Is Structured in Consciousness
Under the direction of a senior faculty member, students prepare and give lectures, lead tutorial sessions, and write and grade quizzes and exams for a college-level mathematics course. (4 credits) Prerequisite: consent of the Mathematics Department faculty

MATH 402 Undergraduate Research in Mathematics
This course provides an opportunity for students to do original research under the supervision of a faculty member. (1 credit) Prerequisite: consent of the Mathematics Department faculty

MATH 423 Real Analysis 1: Locating the Finest Impulses of Dynamism within the Continuum of Real Numbers
Analysis is the mathematically rigorous development of calculus based on the theory of infinite sets. The analysis sequence begins with the application of the infinitary methods of set theory to construct the uncountable continuum of real numbers and unfold its topological structure, and then shows how the basic principles of calculus can be logically unfolded from this set-theoretic understanding of the continuum. Topics include: infinite sets, completeness, numerical sequences and series, open sets, closed sets, compact sets, connected sets, and continuous functions. (4 credits) Prerequisite: MATH 283
MATH 424 Real Analysis 2: Developing a Conceptual Foundation for Calculus
Analysis 2 continues the mathematically rigorous development of calculus based on the
two sets. Topics include: properties of continuous functions, differentiation,
sequences and series of functions, Riemann integral. (4 credits) Prerequisite: MATH 423

MATH 431 Algebra 1: Algebraic Operations as the Self-Interacting Dynamics of a
Mathematical System
Algebra is the study of the structures given to sets of elements by operations or relations
as well as the structure-preserving transformations between these sets. Topics include:
groups and subgroups, quotient groups, group homomorphisms, direct sum, kernel,
image, Noether isomorphism theorems, and the structure of finitely generated abelian
groups. (4 credits) Prerequisite: MATH 286

MATH 432 Algebra 2: The Integration and Interaction of Two Algebraic
Operations on a Mathematical System
Algebra is the study of the structures given to sets of elements by operations or relations
as well as the structure-preserving transformations between these sets. Topics include:
rings, integral domains, fields, principal ideal domains, unique factorization domains,
modules and submodules, tensor products, and exact sequences. (4 credits) Prerequisite: MATH 431

MATH 434 Set Theory: Mathematics Unfolding the Path to the Unified Field — the
Most Fundamental Field of Natural Law
Set theory provides a unified foundation for the diverse theories of modern mathematics
based upon the single concept of a set. Topics include: axioms of set theory, ordinals,
transfinite induction, the universe of sets, cardinal arithmetic, large cardinals, and
independence results. (4 credits) Prerequisite: Consent of the Mathematics Department
faculty.

MATH 490 Senior Project: Integration of All Knowledge in the Self
Students write a substantial paper unifying the knowledge gained from the courses taken
during their major and relating this knowledge to deep principles from Maharishi Vedic
Science.

Students in the Mathematics and Computer Science Track of the Mathematics Major
replace this course with CS 496 Software Development Senior Project or extend the
project of CS 425 Software Engineering to a Senior Project, in which they will write a
program for a particular application. (See Graduation Requirements for the Bachelor of
Science Degree in Mathematics above at the beginning of this section.)
Students prepare a written paper describing their findings and relating them to principles of the Science and Technology of Consciousness. They will also prepare an oral presentation, suitable for a lay audience, based on the paper, for submission for presentation at the annual Knowledge Celebration in June of the year of completion of the major. (4 credits) May be extended to 8 credits. Prerequisite: consent of the Department of Mathematics faculty

**MATH 498 Senior Internship in Mathematics: Knowledge is for Action**
(4 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Prerequisite: approval by the Mathematics Department faculty.

**MATH 499 Directed Study**
(variable credits) Prerequisite: consent of the Mathematics Department faculty
DEPARTMENT OF PHYSICS

FACULTY

• John Hagelin, PhD, Chair, Professor of Physics, Director of the Institute of Science, Technology and Public Policy, Trustee, and President of the University
• Ashley Deans, PhD, Research Professor of Physics
• David Scharf, PhD, Associate Professor of Physics
• Richard Weller, PhD, Adjunct Assistant Professor of Physics and Mathematics

INTRODUCTION

It is said that if you understand the laws of physics you are halfway to understanding the world. It’s in that spirit—of physics as the basic core of today’s most important scientific disciplines—that Maharishi University of Management offers a minor in physics.

The study of physics, as rigorous and compelling as it is as a field, also develops life-long problem-solving, computational, and computer-related skills that enable a graduate to excel in further studies and professional work.

At MUM, the minor in physics puts the student on the road to the discoveries of physics. Whether the graduate steps into the fields of astronomy, chemistry, computer science, engineering, medicine, science writing, energy management, environmental policy, or teaching (to name but a few fields that physics plays a significant part in), physics study at MUM can be helpful for obtaining employment in an endless variety of fascinating professional adventures.

This path is all the more powerful due to the program’s emphasis on both the direct experience and theoretical understanding of human consciousness and its higher states—integral parts of MUM’s physics curriculum. Down through the centuries, the most brilliant and creative physicists have emphasized human consciousness as the foundation for their discoveries. And an exciting momentum has built up over the past 30 years, as theoretical physicists have reached milestones toward a completely unified theory of all the known force and matter fields of nature. Inspired by the guidance of Maharishi Mahesh Yogi, the physicists at Maharishi University of Management have proposed that the unified field at the basis of the whole universe is the same as the unified field of consciousness, the experience of which has been recorded in the ancient Vedic literature
and revived through the advanced technologies of consciousness, the Transcendental Meditation and TM-Sidhi programs.

Now, with the increasingly widespread recognition that consciousness is much more than a localized offshoot of brain functioning, the spotlight is even brighter on physics as a leading discipline in the field of consciousness studies. That same light is also focused on Maharishi University of Management, now taking a leadership role in the field of consciousness studies, especially as we begin to explore the true potential of higher states of consciousness. Which means our physics program is in the exciting and unique position of being able to explore new territory – the rich and fertile connections between consciousness, brain research, and the study of physics.

Maharishi University of Management offers the following opportunities for the study of physics:

**Minor in Physics.** This involves four required calculus-based general physics courses plus one elective physics course. The minor is intended to be a supporting program to various majors at the University. Furthermore, physics today involves computer-based skills to an extent undreamed of a generation ago and, by emphasizing computing in our courses, we provide students with enhanced career opportunities.

Students pursuing an Individualized Major are invited to include physics courses in their program. In particular, students interested in combining mathematics and physics are encouraged to construct an Individualized Major.

**DEPARTMENTAL REQUIREMENTS**

**Graduation Requirements for the Minor in Physics**

To graduate with a minor in physics, students must successfully complete the following eight courses:

- MATH 281 Calculus 1 (prerequisite: MATH 162)
- MATH 282 Calculus 2 (prerequisite: MATH 281)
- PHYS 210 Introduction to Classical Mechanics
- PHYS 220 Introduction to Fluids, Harmonics, Waves
- PHYS 230 Introduction to Electromagnetism
- PHYS 250 Introduction to Modern Physics
- PHYS 297 Philosophy of Science
- PHYS 310 Foundations of Physics and Consciousness: Discovery of the Unified Field and Its Practical Applications for Perfection in Life
COURSES

PHYS 207 Classical Mechanics, Thermodynamics and Solids: Analysis and Synthesis
This course presents basic topics of classical mechanics, including kinematics, Newton’s Laws, momentum, collisions, and work and energy. The course also introduces thermodynamics and the characteristics of solids. The course is an algebra-based non-calculus physics class appropriate for pre-med students. The structure includes both lectures that cover the topics conceptually and mathematically and also practical-application-based lab sessions. This is a very hands-on course that incorporates Workshop Physics, an innovative active-learning-based approach to teaching classical physics. (Lab fee $25) (4 credits) Prerequisite: MATH 162

PHYS 208 Rotational Motion, Fluid Dynamics, and Optics: Unity at the Basis of Diversity
This course presents topics of classical physics including rotational motion, fluid dynamics, vibration & waves, and light. The course is an algebra-based non-calculus physics class. Emphasis is on understanding concepts and applications as opposed to mathematical derivation. The structure includes both lectures that cover the topics conceptually and mathematically as well as practical-applications-based lab sessions. The course incorporates RealTime Physics and Interactive Lecture Demonstrations, both of which are active-learning-based approaches to classical physics. (Lab fee $25) (4 credits) Prerequisite: PHYS 207

PHYS 209 Acoustics, Electricity, Magnetism, and Nuclear Physics: The Universality of Natural Law
This course presents topics of classical physics including acoustics, electrostatics, magnetism, electronic circuit elements, atomic structure, radioactivity, and nuclear fission & fusion. The course is an algebra-based non-calculus physics class. Emphasis is on understanding concepts and applications as opposed to mathematical derivation. The structure includes both lectures that cover the topics conceptually and mathematically along with practical-applications-based lab sessions. The course incorporates RealTime Physics and Interactive Lecture Demonstrations, both of which are active-learning-based approaches to classical physics. (Lab fee $25) (4 credits) Prerequisite: PHYS 208

PHYS 210 Introduction to Classical Mechanics
Classical mechanics provides an accurate description of the objects and phenomena of everyday experience, and constitutes the basis of most of engineering, science, and technology. This course introduces the classical laws governing motion of particles and
extended bodies in space and time, beginning with their active formulation in terms of force and acceleration and then deriving the equivalent formulation in terms of conservation of energy, momentum, and angular momentum. Topics include: motion, Newton’s laws, gravitation, and conservation laws. (4 credits) Prerequisite: MATH 281 Calculus 1

PHYS 211 Classical Mechanics, Thermodynamics, Waves, and Fluids: Unity at the Basis of Diversity
This is an algebra-based non-calculus physics course intended for the non-physical science major. This course prepares students for subsequent tests and graduate training in the health care fields. Topics include: (1) Classical mechanics including kinematics, Newton’s laws of motion, linear momentum, gravity, and rotational dynamics; (2) Work, energy, and thermodynamics; (3) Behavior of fluids; (4) Vibrations and waves. Recent discoveries by Nobel Laureates are presented. The course includes making public speaking presentations on basic concepts of classical physics and writing presentations on connections between the science and technology of consciousness and basic concepts of classical physics. Weekly laboratory sessions. Lab fee: $25 (4 credits) Prerequisites: MATH 162 and CHEM 203 or permission of the instructor.

PHYS 220 Introduction to Fluids, Harmonics and Waves
This course introduces the general principles of fluid mechanics, vibrations and waves. It develops the fundamental principles and mathematical representations of oscillations and standing and traveling waves, as well as conservation of energy and entropy. Topics include: pressure, fluid flow, simple harmonic motion, resonance, mathematical representations of traveling waves, wave properties (such as refraction, diffraction, interference, and polarization), temperature and heat, and the kinetic theory of gases. (4 credits) Prerequisites: MATH 282 Calculus 2 and PHYS 210
PHYS 230 Introduction to Electromagnetism
Electrical forces largely determine the observable properties of matter in the whole range of science from atomic theory to cell biology. The integration of electricity and magnetism constitutes the first unified field theory, anticipating contemporary approaches by more than a century. This course introduces electric and magnetic forces, electric current, and electromagnetic interactions, along with the concepts of electric and magnetic fields and electric potential used to understand and describe them. Topics include: Coulomb’s and Gauss’s laws, the Biot-Savart law and Ampere’s law, Faraday’s law, and Maxwell’s equations. (4 credits) Prerequisites: MATH 282 Calculus 2 and PHYS 210

PHYS 250 Introduction to Modern Physics
Quantum mechanics and Einstein’s theory of relativity are the major themes of this course. Topics include: special relativity, the birth of quantum mechanics, Schrödinger’s equation, wave mechanics of one-dimensional problems, and the hydrogen atom. (4 credits) Prerequisites: MATH 282 and PHYS 210

PHYS 270 Astronomy and Cosmology
In this introductory course students learn about astronomical observation and the evolution of the whole universe. Topics include: the history of astronomy, Kepler's and Newton's laws, sky charts, telescopes, spectroscopy, the sun and planets, the search for exoplanets and extra-terrestrial intelligence, stellar formation and evolution, relativity, black holes, pulsars, quasars, galaxies, standard candles and the cosmic distance scale, the distance modulus, Hubble's law, the big bang and inflation, the search for dark matter, WIMPs and Machos, dark energy, and current theories of the past and future of the universe. (4 credits) Prerequisite: MATH 153

PHYS 296 Introduction to the Scientific Method
In this course we examine the nature and scope of the scientific method. The important contrast between normal science and paradigm-changing science is studied with reference to the scientific study of consciousness and the special issues this raises. Other topics include: the difference between science and religion, recent topics in physics, and the scientific study of consciousness. (2 credits)

PHYS 297 CCTS Philosophy of Science
In this course we examine the nature and scope of the scientific method, which is the systematic, repeatable empirical approach to acquiring knowledge through the discovery and testing of hypotheses against experimental evidence. On this basis we can understand the universality of the scientific process and appreciate the scientific character of modern science and of Maharishi Vedic Science. The important contrast between normal science
and paradigm-change is studied with reference to the scientific study of consciousness and the special issues this raises. We consider whether science is in conflict with religion or whether there is in fact a deep underlying harmony between them. And finally, we explore the implications of advanced physics for the scientific study of consciousness. This course satisfies the graduation requirement for a course in Creative and Critical Thinking. *This is a writing intensive course.* (4 credits)

**PHYS 310 Foundations of Physics and Consciousness: Discovery of the Unified Field and Its Practical Applications for Perfection in Life**
This course gives a deep and non-mathematical understanding of the differences between classical and quantum physics. It explains the meaning and mechanics of unification and symmetry, and the main concepts of unified quantum field theories and superstring theory. It shows that at the basis of the universe lies a completely unified field, a self-interacting entity from which all particles and forces arise through the process of spontaneous symmetry breaking. The course gives students experience and understanding of the interconnectedness between the laws of physics, the universe, and themselves. (4 credits)

**PHYS 313 Classical Mechanics**
Students explore the formal structure of Newtonian mechanics with application to single-particle systems. Topics include kinematics, dynamics, the harmonic oscillator, three-dimensional motion, constraints, non-inertial systems, central force problems and scattering. (4 credits) Prerequisites: MATH 282 and PHYS 210, MATH 283 recommended

**PHYS 330 Electromagnetism 1**
The calculus of vector fields is applied to the study of electromagnetic fields and their sources. Maxwell’s equations and their application to relativistic and non-relativistic phenomena are examined in detail, along with the principles of physical optics. (4 credits) Prerequisites: MATH 282 and PHYS 230; MATH 304 is recommended

**PHYS 360 Quantum Mechanics 1**
Topics include: wave mechanics, one-dimensional potential, operator methods and the Dirac formulation, the harmonic oscillator, the classical limit and the WKB approximation. (4 credits) Prerequisites: MATH 282, MATH 286, and PHYS 250 required; MATH 304 recommended

**PHYS 460 Introduction to Quantum Field Theory 1**
This course presents an introduction to the physical concepts and computational methods of quantum field theory, including the analysis of quantum electrodynamics using
Feynman diagrams, beginning with electron-positron annihilation. The quantization of fields is treated in depth. Advanced topics may include the study of Hagelin’s Flipped SU(5) grand unified theory based on the superstring, with attention to hidden sector matter as providing a natural mechanism for quantum coherent phenomena in biological systems. (4 credits) *Prerequisite:* PHYS 360

**PHYS 490 Senior Project: Integration of All Knowledge in the Self**
Students write a paper unifying the knowledge gained from the courses taken during their major and relating this knowledge to deep principles from the science and technology of consciousness. They will report on readings or research they conduct on a topic or problem suggested by the physics courses they have taken. In addition, they will also prepare an oral presentation, suitable for a lay audience, based on the paper, for submission for presentation at the annual Knowledge Celebration in June of the year of completion of the major. (4 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) *Prerequisites:* consent of the Department of Physics faculty

**PHYS 498 Internship in Physics**
(variable credits) *Prerequisite:* consent of the Department of Physics faculty

**PHYS 499 Directed Study**
(variable credits) *Prerequisite:* consent of the Department of Physics faculty
DEPARTMENT OF PHYSIOLOGY AND HEALTH

FACULTY

• Robert Schneider, MD, FACC, Dean of the College of Integrative Medicine, Co-Director of PhD in Physiology, Director of the Institute for Natural Medicine and Prevention, Professor of Physiology and Health
• Robert Keith Wallace, PhD, Chair and Professor of the Department of Physiology and Health, Co-Director of the PhD in Physiology Program, Founding President of MUM
• Paul Morehead, PhD, Associate Dean of the College of Integrative Medicine, Co-director of the MS in Maharishi AyurVeda® and Integrative Medicine, Assistant Professor of Physiology and Health
• Komal Marwaha, MD, PhD, Associate Professor of Biology, Human Anatomy and Physiology, Co-director of the MS in Maharishi AyurVeda® and Integrative Medicine
• Liis Mattik, PhD, Associate Chair of the Department of Physiology and Health, Director of BA in Ayurveda Wellness and Integrative Health, Director of the BS in Pre-Integrative Medicine, Assistant Professor of Physiology and Health
• Sultan Salah, MS, Director of the BA in Ayurveda Wellness and Integrative Health Distance Education Track, Instructor of Physiology and Health
• Jim Davis, DO, Clinical Director of the Integrative Wellness Center, Clinical Professor of Physiology and Health
• Antoine Nader, MD, PhD, Professor of Physiology and Health
• Sanford I. Nidich, EdD, Professor of Physiology and Health and of Education, Director of the Center for Social and Emotional Health and Consciousness, Senior Investigator, Institute for Natural Medicine and Prevention
• Dinesh Gyawali, PhD, Assistant Professor of Physiology and Health
• Abraham Bornstein, MD, Adjunct Professor of Physiology and Health
• Charlotte Bech, MD, Adjunct Assistant Professor of Physiology and Health
• Barbara Grandpierre, MD, Adjunct Assistant Professor of Physiology and Health
• Tim Carr, MD, Adjunct Assistant Professor of Physiology and Health
• Jim Brooks, MD, Adjunct Assistant Professor of Physiology and Health
• Charles Elderly, MD, Adjunct Assistant Professor of Physiology and Health
• Hemant Gupta, DNM, MD, Adjunct Professor of Physiology and Health
• Stuart Rothenberg, MD, FAAFP, Adjunct Professor of Physiology and Health
• Nancy Lonsdorf, MD, Clinical Professor of Physiology and Health
• Michael Olmstead, DDS, Clinical Professor of Physiology and Health
• Manohar Palakurthi, BAMS, Clinical Professor of Physiology and Health
INTRODUCTION

Maharishi University of Management is the only university in the United States offering Maharishi AyurVeda – a comprehensive, prevention-oriented approach to health care based on Maharishi Mahesh Yogi’s revival of ancient ayurvedic knowledge, the traditional system of natural medicine of India. Ayurveda or “Science of Life” is a complete science of natural health care addressing mind, body, and environment.

The goals of the programs offered by the Department of the Physiology and Health are:

• to train individuals interested in providing healthy life-style education and natural health care service rooted in the knowledge and application of the clinically effective, side-effect-free diagnostic and therapeutic modalities available in Maharishi AyurVeda,
• to provide an introduction to major systems of natural medicine,
• to provide an introduction to the applications of integrative health care in a scientific, evidence-based framework.

The foundational courses of Maharishi AyurVeda prepare students to care for their own health through regular practice of Maharishi’s technologies of consciousness – Transcendental Meditation technique and TM-Sidhi program – ideal daily and seasonal routine, balanced diet and lifestyle choices, and mutually enriching social behavior. More advanced courses provide training and practical experience in how to guide clients towards healthier lifestyle choices helping them to maintain or restore good health. Courses in all degree programs offered by the department further aim to build a strong scientific understanding of health from the modern and Vedic science perspectives.

As part of this discipline of health, students will study how human physiology is an expression of the deepest intelligence of nature and how to enliven nature’s intelligence – the inner intelligence of the body – through the Transcendental Meditation technique and other approaches of Maharishi AyurVeda.

Students will study how to assess the level of balance and imbalance in the mind and physiology through the technique of pulse reading, which is one of the most effective means of gauging the degree of balance and imbalance that simultaneously enlivens the inner intelligence of the body. They will also learn how the proper use of diet, herbal food supplements and essential oils, daily and seasonal routine attuned with the rhythms
of nature, regular physical activity, and traditional purification techniques from the ancient tradition of Ayurveda can be used for maintaining or restoring balance in the body.

Each program offers theoretical understanding of the main principles of Maharishi AyurVeda as well as extensive practical experience consulting with clients in a clinical setting. On the graduate level students will probe deeper into the knowledge, focusing on how to treat specific organ systems and health concerns.

**PROGRAMS OFFERED**

- **The Bachelor of Arts in Ayurveda Wellness and Integrative Health** program prepares students to be health consultants and educators in the field of prevention of disease and promotion of health. This program is offered in two tracks:
  1. An In-Residence track where students earn their degree at the MUM campus in Fairfield, Iowa.
  2. A Distance Education track where students take courses online, except for the Wellness Consultant Practicum course, which is offered as two 2-week in-residence courses at MUM campus in Fairfield, Iowa.

- **The Master of Science in Maharishi AyurVeda and Integrative Medicine** Distance Education program is taught with online courses and six weeks of in-residence, full-time clinical practicums in the Integrative Wellness Center at MUM campus in Fairfield, Iowa that are taken as six 5-day intensives. The duration of the degree program is three years of part-time study.

- **The Certificate Program in the Practice of Maharishi AyurVeda and Integrative Medicine** that provides additional practical experience to the graduates of the Master’s in Maharishi AyurVeda and Integrative Medicine program. Those students who complete 12 - 20 credits and successfully pass an exit examination will receive a certificate.

- **The Doctoral (PhD) Program in Physiology and Health** is designed for health professionals or those with a master’s degree in physiology or the equivalent (described below), to conduct original research on physiological mechanisms, clinical effects, and applications of traditional systems of natural and integrative medicine, especially Maharishi AyurVeda and Transcendental Meditation. This program prepares graduates for careers in academic medicine and health. The PhD program has In-Residence and Distance-Education tracks in which students take the same courses and complete the same research requirements.
Note: These programs are designed to provide knowledge and practical experience sufficient for advising others in developing a personalized approach to health and wellness based on the principles of Maharishi AyurVeda. Regulations regarding health care practice and professional licensure standards vary by state and country. Graduates of the programs should be familiar with the laws of the jurisdiction in which they intend to be active to ensure that the scope of their activities does not violate regulations regarding health care practice. Becoming a Maharishi AyurVeda Wellness Consultant or Practitioner does not confer professional licensing status, and Maharishi University of Management makes no representations regarding its economic or other value.

BACHELOR OF ARTS IN AYURVEDA WELLNESS AND INTEGRATIVE HEALTH

Courses in the Ayurveda Wellness and Integrative Health program prepare graduates for a variety of paths in the field of alternative health care by implementing ancient scientifically proven approaches adapted to the modern world. Students learn foundational knowledge in human anatomy and physiology from both modern and Maharishi AyurVeda perspectives, and gain knowledge and skills to be health educators and consultants in the field of prevention of disease and promotion of health. Students learn to addresses the whole person, including body, mind, consciousness, all aspects of the lifestyle, and near and far environment.

Special Features of the BA in Ayurveda Wellness and Integrative Health Program

The BA in Ayurveda Wellness and Integrative Health program trains students to prevent disease and promote health and includes the following areas of study:

• Students learn to addresses the whole person, including body, mind, consciousness, all aspects of the lifestyle, and near and far environment. The therapeutic relationship between the health consultant/educator and client is emphasized.
• Self-Pulse Reading: Learning to detect balance and imbalance in the body and mind by feeling the pulse.
• Diet, Nutrition and Digestion: Study of diets that balance and nourish the physiology.
• Daily and Seasonal Routines: Study of how to align the individual life with the daily and seasonal rhythms of natural law.
• Family health: Study of how to promote health in the areas of preconception, pregnancy, delivery, and postnatal care.
• Aromatherapy: Learning to use nature's essences for well-being and optimal state of health.
• Herboloby: Study of Ayurvedic herbs and herbal compounds, their qualities and actions in human physiology, as well as their effects in various health conditions.
• Maharishi Yoga Asanas: Learning to use Vedic body postures to enliven mind-body coordination to support pure awareness, the state of yoga.
• Biology: Human anatomy and physiology including modern medical terminology of common diseases of the major organ systems and their treatments.
• Wellness Consultant Training: Training students to be able to consult with clients, family, and friends to help them achieve higher levels of health and wellness through Maharishi AyurVeda.
• Wellness Consultant Practicum: Practicing the knowledge of Maharishi AyurVeda with clients in a clinical setting under the supervision of experts in Maharishi AyurVeda and modern medicine.
• A variety of optional elective courses are offered by the Department of Physiology and Health to enhance the learning experience of the students. One of the elective courses is Introduction to Maharishi AyurVeda Medical Jyotish where students learn how to determine individual mind-body types (Prakriti) and health tendencies (Vikriti) to predict upcoming ‘red-flag’ health conditions.

DEPARTMENTAL REQUIREMENTS

Graduation Requirements for the Bachelor of Arts in Ayurveda Wellness and Integrative Health, In-Residence Track

To graduate with the BA in Ayurveda Wellness and Integrative Health, In-Residence track, students must successfully complete all requirements for the bachelor’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”). As part of the requirements, the 52 credits of the coursework in the Ayurveda Wellness and Integrative Health program, In-Residence track must be completed as follows:

• BIO 265 Human Anatomy and Physiology I (4 credits) Prerequisite: one of the following: BIO 220, or BIO 251, or placement through a biology placement test, or approval of the instructor
• BIO 266 Human Anatomy and Physiology II (4 credits) Prerequisite: BIO 265
• PH 101 Physiology is Consciousness (4 credits) Prerequisite: STC 108
• PH 230 Maharishi AyurVeda Science-Based Aromatherapy I (4 credits) Prerequisite: PH 260
• PH 260 Maharishi AyurVeda Course on Self-Pulse Reading for Good Health (4 credits)
• PH 262 Maharishi AyurVeda Course on Diet, Digestion, and Nutrition (4 credits) Prerequisite: PH 260
• PH 263 Maharishi Yoga Asanas (4 credits) Recommended: BIO266
• PH 320 Maharishi AyurVeda Family Health Series Course One – Healthy, Happy Mother and Baby (4 credits) Prerequisites: PH 262 and 263; Ayurveda Wellness and Integrative Health majors only
• PH 412 Maharishi AyurVeda Herbology (4 credits) Prerequisite: PH 262 or PH 252; Strongly recommended: PH 430 or PH 429
• PH 430 Maharishi AyurVeda Wellness and Integrative Health Consultant Training (8 credits) Prerequisites: BIO 266 and PH 262
• PH 431 Maharishi AyurVeda Wellness Consultant Practicum (8 credits) Prerequisites: PH 263 and either PH 430 or PH 429

Note: Students may fulfill all or some of their requirements for Human Anatomy and Physiology by having completed equivalent undergraduate coursework at an accredited university within last five years and earned a grade of “B-” or higher. Undergraduate degree students can apply transfer credits to cover the general education requirements, electives, and up to half the coursework in the major for a maximum of 90 total credits.

Additional major recommended courses:
• FOR 479 Maharishi Vastu Architecture (Prerequisite for undergraduates: FOR 103)
• FOR 458 Ayurvedic Cooking (Prerequisite for undergraduates: FOR 103)
• PH 315 Introduction to Maharishi AyurVeda Medical Jyotish (Prerequisite: Ayurveda Wellness majors only)
• PH 330 Maharishi AyurVeda Science-Based Aromatherapy II (Prerequisite: PH 230)
• PH 331 Maharishi AyurVeda Science-Based Aromatherapy III (Prerequisite: PH 330)
• PH 332 Maharishi AyurVeda Science-Based Aromatherapy IV, Practicum (Prerequisite: PH 331 & 431)

Course offerings may vary each year. With the exception of PH 431, which can be repeated for credit up to four times, courses generally cannot be repeated for credit, only for knowledge.

Entrance Requirements for the Bachelor of Arts in Ayurveda Wellness and Integrative Health, Distance Education Track

Since the Bachelor’s is a Consciousness-Based education program, accepted students are required to complete the following prerequisites before beginning the BAAWIM program:
1. STC 108 Science and Technology of Consciousness
2. Learn the Transcendental Meditation technique

Graduation Requirements for the Bachelor of Arts in Ayurveda Wellness and Integrative Health, Distance Education Track

To graduate with the BA in Ayurveda Wellness and Integrative Health, Distance Education track, students must successfully complete all requirements for the bachelor’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) As part of the
requirements, the 52 credits of the coursework in the Ayurveda Wellness and Integrative Health program, Distance Education track, must be completed as follows:

- **BIO 265 Human Anatomy and Physiology I (4 credits)** *Prerequisite:* one of the following: BIO 220, or BIO 251, or placement through a biology placement test, or approval of the instructor
- **BIO 266 Human Anatomy and Physiology II (4 credits)** *Prerequisite:* BIO 265
- **BIO 267 Modern Health (4 credits)** *Prerequisite:* BIO 266
- **PH 101 Physiology is Consciousness (4 credits)** *Prerequisite:* STC 108
- **PH 230 Maharishi Ayurveda Science-Based Aromatherapy I (4 credits)** *Prerequisite:* PH 260
- **PH 260 Maharishi Ayurveda Course on Self-Pulse Reading for Good Health (4 credits)**
- **PH 262 Maharishi Ayurveda Course on Diet, Digestion, and Nutrition (4 credits)** *Prerequisite:* PH 260
- **PH 263 Maharishi Yoga Asanas (4 credits)** *Recommended:* BIO 266
- **PH 320 Maharishi Ayurveda Family Health Series Course One – Healthy, Happy Mother and Baby (4 credits)** *Prerequisites:* PH 262 and 263; Ayurveda Wellness and Integrative Health majors only
- **PH 323 Starting a Successful Practice in Ayurveda Wellness (4 credits)**
- **PH 412 Maharishi Ayurveda Herbology (4 credits)** *Prerequisites:* PH 262 or PH 252; *Strongly recommended:* PH 430 or 429
- **PH 429 Maharishi Ayurveda Consultant Training for Clinical Practice: Guiding Clients to Greater Health and Wellness with the Knowledge of Ayurveda (4 credits)** *Prerequisites:* PH 262
- **PH 431 Maharishi Ayurveda Wellness Consultant Practicum (4 credits)** *Prerequisites:* PH 263 and either PH 430 or PH 429

*Note:* Students may fulfill all or some of their requirements for Human Anatomy and Physiology by having completed equivalent undergraduate coursework at an accredited university within last five years and earned a grade of “B-” or higher. Undergraduate degree students can apply transfer credits to cover the general education requirements, electives, and up to half the coursework in the major for a maximum of 90 total credits.

**Additional major recommended courses:**

- **PH 431 Maharishi Ayurveda Wellness Consultant Practicum (4 credits)** *Prerequisites:* PH 263 and either PH 430 or PH 429
- **PH 324 Fundamentals of Effective Health Counseling (4 credits)**

**Graduation Requirements for the Minor in Ayurveda Wellness**

To graduate with a minor in Ayurveda Wellness, students must successfully complete 20 credits of coursework as follows:
• PH 230 Maharishi AyurVeda Science-Based Aromatherapy I (*Prerequisite:* PH 260 or PH 352)
• PH 260 Maharishi AyurVeda Course on Self-Pulse Reading for Good Health
• PH 262 Maharishi AyurVeda Course on Diet, Digestion, and Nutrition (*Prerequisite:* PH 260)
• PH 263 Maharishi Yoga Asanas (*Recommended:* BIO 266)
• Students are required to choose an additional 4 credits from among the following courses to complete the minor in Physiology and Health:
  o FOR 458 Ayurvedic Cooking (*Prerequisite for undergraduates:* FOR 103)
  o FOR 479 Maharishi Vastu Architecture (*Prerequisite for undergraduates:* FOR 103)
  o PH 330 Maharishi AyurVeda Course on Aromatherapy II (*Prerequisite:* PH 230)

MAST ER OF SCIENCE IN MAHARISHI AYURVEDA AND INTEGRATIVE MEDICINE

The Master of Science in Maharishi AyurVeda and Integrative Medicine offers graduate training in anatomy, physiology, pathology, assessment, management and prevention of health disorders and promotion of ideal health from the perspective of Maharishi AyurVeda with introductions to other major systems of natural medicine.

Ayurveda is the world’s oldest and most complete system of natural health care. Maharishi AyurVeda is a holistic formulation of Ayurveda that includes knowledge and technologies to restore health from the levels of mind, body, and environment. This is done by enlivening the inner intelligence of the body, which is identified in Maharishi AyurVeda as the field of consciousness, the unified field of natural law.

This Distance Education program is offered via online courses and six weeks of in-residence, full-time clinical practicums in the Integrative Wellness Center at MUM campus in Fairfield, Iowa. The duration of this track is three years, part time.

Entrance Requirements for the Master of Science in Maharishi AyurVeda and Integrative Medicine

To be admitted to the MS in Maharishi AyurVeda and Integrative Medicine - Distance Education program, applicants must either be licensed health professionals or have education, training, and experience in a health-related field. The admissions committee will use discretion in accepting applicants according to the following criteria.

Applicants must:
• have a bachelor’s degree;
• be fluent in English (see “International Student Admissions” in “Admissions” portion of catalog);
• be a licensed MD, DO, ND, DC, nurse practitioner, or physician assistant, or other licensed health practitioner; or have previous education, training and experience in a health-related field;
• have two recommendations from professors or colleagues; and
• provide professional education transcripts, or verification of degrees;
• for applicants who have not had college level anatomy and physiology, it is recommended to view one of the free online anatomy and physiology courses listed below. The essential anatomy and physiology will be covered during the MS program.
  1. The Khan Academy
  2. Crash Courses
     https://www.youtube.com/watch?v=uBGl2BujkPQ

Because the master’s degree is a Consciousness-Based education program, accepted students are required to learn the Transcendental Meditation technique before beginning the MS program or at the beginning of the first semester as part of the program. 

*Note: Applicants with a BA in Ayurveda Wellness and Integrative Health degree with an average grade of “B” or higher are eligible for a waiver of the master’s level foundational courses: PH 500 and PH 501. This allows them to enter the 2nd year of program coursework.*

**Graduation Requirements for the Master of Science in Maharishi AyurVeda and Integrative Medicine**

To graduate with an MS in Maharishi AyurVeda and Integrative Medicine students must successfully complete all requirements for the master’s degree.

As part of the requirements for the MS in Maharishi AyurVeda and Integrative Medicine – Distance Education track, all students must complete the following required courses totaling 42 credits:

**On-line Courses (36 credits):**

• **PH 500** Basic Principles of Prevention, Diagnosis and Treatment in Maharishi AyurVeda I (*Prerequisite:* Acceptance to MS program)
• **PH 501** Basic Principles of Prevention, Diagnosis and Treatment in Maharishi AyurVeda II and Other Systems of Natural Medicine (*Prerequisite:* PH 500)
• **PH 502** Musculoskeletal System (*Prerequisite:* PH 501)
• **PH 503** Cardiovascular/Renal System (*Prerequisite:* PH 502)
• **PH 504** Digestive System and Metabolism (*Prerequisite:* PH 503)
• **PH 505** Pulmonary System and ENT (*Prerequisite:* PH 504)
• **PH 506** Articular System (*Prerequisite:* PH 505)
• PH 507 Endocrine/Reproductive System (Prerequisite: PH 506)
• PH 508 Hematologic/Immunologic System (Prerequisite: PH 507)
• PH 509 Nervous System and Skin (Prerequisite: PH 508)

In-residence Courses (6 credits):
Students are required to complete six credits of the clinical training as follows:
• PH 497 First Year Orientation (1 credit) No Prerequisites
• PH 510 First Year Clinical Training (1 credit) Prerequisite: PH 500
• PH 511 Second Year Clinical Training (1 credit) Prerequisite: PH 504
• PH 512 Third Year Clinical Training (1 credit) Prerequisite: PH 508

In addition, students must:
• successfully complete an examination for each course at ≥ 70% performance;
• engage in at least 100 patient encounters, either observing a consultation, participating in a small group patient-oriented discussion, or conducting a one-on-one consultation; and
• pass the final clinical cases and examination.

CERTIFICATE PROGRAM IN THE PRACTICE OF MAHARISHI AYURVEDA AND INTEGRATIVE MEDICINE

Graduates of Master of Science in Maharishi AyurVeda and Integrative Medicine who would like an opportunity to review and practice the knowledge gained during the course of their studies can do so by seeing live clients with experienced clinical faculty in Integrative Wellness Center, Fairfield, IA. Those students who complete 12 - 20 credits and successfully complete an exit examination will receive a certificate.

Entrance Requirements for Certificate Program in the Practice of Maharishi AyurVeda and Integrative Medicine
• Hold a MS degree in Maharishi AyurVeda and Integrative Medicine

Graduation Requirements for Certificate Program in the Practice of Maharishi AyurVeda and Integrative Medicine
• 12 – 20 credits of PH 515 Practicum with Clinical Cases: Establishing Confidence and Expertise in the Practice of the Total Knowledge of Life in Perfect Health
• Successful completion of an exit examination
PHD IN PHYSIOLOGY AND HEALTH

The PhD in Physiology is a research program that is designed for graduate health professionals or those with a master’s in physiology, master of science in Maharishi AyurVeda and Integrative Medicine, or the equivalent to conduct original research on the clinical effects and basic mechanisms of Maharishi AyurVeda, the Transcendental Meditation program, and other prevention-oriented, natural health care programs.

The program-level objectives for student learning in the PhD in Physiology and Health program are:

1. To apply the knowledge of evidence-based integrative health and medicine at the doctoral level to design and conduct scholarly research that contributes to advancement of the field of physiology and health -- leading to external publication, funding support and consideration in clinical practice guidelines and other professional literature.

2. To conduct original research on the effects of modalities of Maharishi AyurVeda, including Transcendental Meditation and other natural health care programs. Examples of topics with faculty expertise available for research theses include:
   • Aging
   • Cardiovascular health
   • Stress-related mental health disorders
   • Evidence-based AyurVeda and Integrative Medicine

The core curriculum courses are taught via live participatory webinar. Subsequent tutorial and mentoring sessions with PhD faculty may be conducted either in person or by telecommunication. Students may participate in the PhD program while either residing on the MUM campus, residing off campus in Fairfield or residing off campus at a distance.

Entrance Requirements for the PhD Degree in Physiology and Health

The entrance requirements for the Doctor of Philosophy in Physiology are:

• Practice of the Transcendental Meditation program
• Any one of the following: MS in Physiology or equivalent; MS in Maharishi AyurVeda and Integrative Medicine; doctorate in medicine, e.g. MD, DO, ND or BAMS degree; equivalent training evidenced by a master’s or doctorate in a health profession

Satisfaction of entrance requirements must be approved by the director of the program and the dean of the graduate school.
Graduation Requirements for the PhD Degree in Physiology and Health

To graduate with a PhD in Physiology, students must successfully complete all general requirements for the doctoral degree (please refer to “Requirements for a Doctoral Degree” in “Academic Policies”). As part of these requirements, students must successfully complete the following degree requirements. The total credits for the completed PhD will be 62–90 credits depending on a student’s individualized program.

Core curriculum (18 credits)
• PH 582 Research Methods (4 credits)
• PH 583 Biostatistics (4 credits)
• PH 595 Advanced Topics in Physiology (4 credits)
• PH 596 Research (2 credits over two semesters)
• STC 508 Science and Technology of Consciousness. STC 108 or equivalent. (6 credits)
Completion of at least the first semester of the MS in Maharishi AyurVeda and Integrative Medicine or similar program will satisfy this requirement. (4 credits)

These core curriculum courses may be fulfilled through transfer credit, directed study, equivalent coursework or demonstrated experience with permission of the course instructor and program director.

PH 601 Preparation for Qualifying Examination (4 credits, may be repeated for credit)
Prerequisite: successful completion of the core curriculum

PH 700 Dissertation Proposal Preparation (8 credits per semester, 32 credits minimum — may be repeated for credit until dissertation proposal is accepted)
Upon successful completion of PH 700, which culminates with the written proposal, students will advance to the PhD Researcher status and then enroll in dissertation research.

PH 701 Dissertation Research (8 credits per semester, 32 credits minimum — may be repeated for credit until dissertation research, write up, presentation, and committee approval are completed)

The PhD degree will be awarded to a PhD Researcher once the following steps have been completed:
• Presentation of the dissertation findings in a formal lecture within an open public forum
• Acceptance of the dissertation by the Dissertation Committee, Graduate School, and the Library.
COURSES

Undergraduate Courses

BIO 220 Introduction to Biology: Pure Consciousness Underlies the Structure and Behavior of All Living Beings
This introductory biology course is intended to give students a broad overview of biology and understanding of the basic biological principles with respect to humans. Topics include: study of the characteristics of living organisms, scientific steps to study biology, natural organization of life, taxonomy, chemistry as basis of biology, carbohydrates, proteins, nucleic acids (DNA, RNA & ATP), eukaryotic and prokaryotic cells; cell organelles and communication; cell membrane and membrane transport (osmosis, diffusion, endocytosis, exocytosis); types of tissue; epithelial, connective and muscular tissue. Relevant current scientific research results are discussed, as appropriate. The understanding that the cellular functions are replica of natural law expressed in the ancient Veda and Vedic Literature will be explored in this course. Includes a written assignment and a public speaking exercise, in which students are required to explain the basic concepts of biology and their relation to humans. Lab sessions on the basic concepts of general biology and their application are included. Lab fee: $25 (4 credits – cannot be taken for credit after BIO 251)

BIO 265 Human Anatomy and Physiology I: Outer Depends on Inner, the State of Inner Balance of Our Body Determines Our Health
This is the first course of a two-course series exploring the terminology, structure, function, and interdependence of the human body systems, as well as introducing relevant medical terminology. This course provides understanding of how the body’s structure and function maintains balance and healthy state. Topics include: homeostasis; feedback control; axial and appendicular skeleton; structure and types of bone; bone ossification, remodeling and repair; skeletal muscle structure, types and functions; molecular basis of muscle contraction and neuromuscular junction; blood, plasma, structure and function of RBC, WBC and platelets; blood grouping; Rh incompatibility; intrinsic and extrinsic clotting mechanisms; cardiovascular system, blood vessels, lymphatics; heart, conduction system of the heart, waves of ECG; immunity; cell mediated and humoral; stress and General adaptation syndrome; and digestive system. Relevant current scientific research results are discussed, as appropriate. Students explore how human physiology is a replica of natural law as expressed in the ancient Vedic Literature discovered by Tony Nader, MD, PhD. Lab fee: $25 (4 credits) Prerequisite: one of the following: BIO 220, or BIO 251, or placement through a biology placement test, or approval of the instructor)
BIO 266 Human Anatomy and Physiology II: The Dynamic Silence of the Self Is a State of Eternal Balance and Infinite Order That Is the Basis for the Orderly Growth, Coordination, and Evolution of Everything in Creation

This is the second course of the two-course series of Human Anatomy and Physiology. Focus will be on the endocrine system and divisions of the nervous system, and how they control other organ systems of the body and maintain homeostasis. Effects of stress on human physiology, body response to stress, and the relationship between stress and lifestyle diseases will also be covered. Topics include: external and internal respiration, pulmonary ventilation, lung volume and capacities, transport of gases in blood, common respiratory diseases, major endocrine glands and their associated hormones, effect of hyper- and hypo- secretion of different hormones on body, mechanisms of action of hormones, structure and functions of male and female reproductive system; spermatogenesis, oogenesis, reproductive hormones; anatomy and physiology of neuron, action potential, membrane potential, synaptic transmission, structure and function of cerebrum, cerebellum, brainstem, sympathetic and parasympathetic nervous divisions. Relevant current scientific research results are discussed, as appropriate. Students continue exploring the understanding that human physiology is a replica of natural law as expressed in the ancient Vedic Literature discovered by Tony Nader, MD, PhD.

Lab fee: $25 (4 credits) Prerequisite: BIO 265

BIO 267 Modern Health: Integrating the Ancient and Modern Sciences

Ayurveda Wellness consultants should be competent in understanding and using modern terminology while speaking with their clients and doctors about any health concerns their clients may have. This requires familiarity with the modern medical terminology. This course provides knowledge of common diseases of the major organ systems. Students explore the correlation between approaches to causes, symptoms and treatments used in modern medicine and Ayurveda. Topics include: principles of pathology; signs and symptoms of common diseases; modern medical tests, diagnostic tools, and treatments. (4 credits) Prerequisite: BIO 266

PH 101 Physiology Is Consciousness: Awakening the Cosmic Potential of the Human Brain

The course will explore the new paradigm in science that the “Physiology is Consciousness.” Current concepts of mind and body will be understood in terms of this new paradigm. This course will present our facts of brain structure and function in light of Maharishi Vedic Science and the discovery of Veda and the Vedic Literature in human physiology done by Tony Nader, MD, PhD. We will examine how our brain constructs reality at every moment and how the experience of unboundedness – the Self of every individual – can transform our physiology and awaken the total creative potential of the brain in enlightenment, which is the birthright of every human being. Includes public
speaking presentations on course topics. Materials fee: $10 (4 credits) Prerequisite: STC 108

**PH 230 Maharishi AyurVeda Science-Based Aromatherapy I: Using Nature’s Essences for Well-Being**

This course presents the history and basic principles of aromatherapy, and its application in Maharishi AyurVeda. Topics include: the chemistry and therapeutic properties of aromatic molecules; detailed descriptions of the chemical structure and properties of essential oils and hydrosols, their therapeutic effects on physiological and emotional states, and their effect on the three doshas; and indications for common ailments. In this course students will learn how to select appropriate essential oils and hydrosols for well-being in accord with the principles of Maharishi AyurVeda Aromatherapy. Includes public speaking presentations and labs. Students completing the series of all four Maharishi AyurVeda Aromatherapy courses with a grade of “B” or higher will receive a Maharishi AyurVeda Aromatherapy Certificate. Materials fee: $65 Lab fee: $25 (4 credits) Prerequisite: PH 260

**PH 260 Maharishi AyurVeda Course on Self-Pulse Reading for Good Health: Measuring the Impulses of the Body’s Intelligence and Restoring Balance in the Physiology through the Touch of Three Fingertips**

Self-Pulse Reading is the most ancient and most natural means of determining the level of balance or imbalance in the mind and body. Taking the pulse enlivens the connection between mind and body, consciousness and matter. Furthermore, the procedure of taking the pulse produces a balancing effect on the mind and body. This course presents Maharishi’s revival of this ancient technology. In this course students will learn how to read their pulse and detect imbalances early, before they manifest as symptoms of a disease; how to determine where imbalances are; and how to restore balance. This course includes public speaking exercises. Materials fee: $6 (4 credits)

**PH 262 Maharishi AyurVeda Course on Diet, Digestion, and Nutrition: Imbibing Intelligence from Food and the Environment — Enlivening Strong Digestion and Selecting a Diet Ideally Suited to the Individual**

Diet, digestion, and nutrition are fundamental to health. How we metabolize food and drink directly affects the strength, vitality, immunity, and longevity of the physiology. This course provides very practical knowledge of what to eat, when to eat, and how to eat to maintain or restore perfect balance of the three doshas – the three principal governing qualities of intelligence in the body. Topics include: influence of consciousness on the process of digestion and nutrition, effects of different foods on physiology, categories of food according to their influence on the three doshas, and basic principles of Dravya Guna (Materia Medica) – Vedic herbology. This course includes public speaking
exercises. Based on availability, ayurvedic cooking demonstrations are included. Materials fee: $30 (4 credits) Prerequisite: PH 260

PH 263 Maharishi Yoga Asanas: Vedic Exercise to Enliven Mind-Body Coordination to Support Pure Awareness, the State of Yoga
Yoga is one of the 40 aspects of the Veda and Vedic Literature representing unifying quality of consciousness. According to Maharishi, Yoga provides technologies to unfold the experience of the unified level of consciousness or Transcendental Consciousness. The theoretical part of this unique course presents the knowledge of Yoga as unity and provides understanding of the specific effects of Yoga Asanas on the mind and body, physiology and consciousness. Proper practice of Yoga Asanas – a major aspect of this course – provides students with the experience of deep relaxation, bliss, and expansion of awareness. This course includes public speaking exercises on the effects of Yoga Asanas on specific mental and physical health conditions, and the readings of Maharishi’s commentary to the Bhagavad-Gita as the essence of Vedic knowledge and the discipline of Yoga. Materials fee: $5 (4 credits) Recommended: BIO 266

PH 314 Biostatistics: Discovering the Orderly Patterns and Relationships at the Basis of Nature’s Functioning
Statistics offers powerful quantitative tools based on the underlying orderliness of Nature to support improved decision-making in many fields, including the health and life sciences. Statistics is the art and science of finding meaningful patterns and relationships in data (data analysis), generating useful data (data production), and drawing valid conclusions from data (statistical inference). In this course you will learn how to use key graphical and numerical tools of data analysis, how to effectively present your findings, and evaluate the validity of your conclusions. Health and life sciences examples and case studies will be emphasized. Topics include: graphical and numerical tools for summarizing and describing data, modeling data with probability distributions, sampling and surveys, designing experiments, hypothesis testing for means and proportions, correlation analysis, and modeling relationships using regression analysis. (4 credits) Prerequisite: MATH 153 or equivalent

PH 315 Introduction to Maharishi AyurVeda Medical Jyotish: Averting the Danger That Has Not Yet Come
In Maharishi Vedic Science, AyurVeda and Jyotish (Vedic astrology) complement each other. Maharishi AyurVeda provides a means to identify a health condition through the physiology, while Maharishi Medical Jyotish provides a means to identify the timing, duration, and intensity of the condition. This course will teach the basic physiological and disease elements of a Jyotish chart, and the procedures of how to combine them for health evaluation. Students will use this diagnostic tool to interpret charts calculated by a
computer program. The goal of the course is to develop the ability to determine mind-body types (Prakriti) and health tendencies (Vikriti), and to predict upcoming ‘red-flag’ medical conditions in order to recommend appropriate preventive measures. Materials and software fee: $60 (4 credits) Prerequisite: Ayurveda Wellness majors only

PH 320 Maharishi AyurVeda Family Health Series Course One - Healthy, Happy Mother and Baby: An Integrated Approach for Promoting Health in the Areas of Preconception, Pregnancy, Delivery, and Postnatal Care for Both Prospective Parents and the Newborn Child
The comprehensive time-tested knowledge of Maharishi AyurVeda provides the basis to give every family the best start. Topics include: preconception guidelines to maximize fertility and fetal health, month-by-month guidelines for pregnancy, strategies to facilitate labor and provide the ideal environment at delivery, and postpartum care guidelines for both parents and newborns to ensure the fullest recuperation for mothers and a healthy beginning for every family. Students who complete this course with grade B or higher receive a certificate. Materials fee: $40 (4 credits) Prerequisites: PH 262, and PH 263; AyurVeda Wellness and Integrative Health majors only

PH 323 Starting a Successful Practice in Ayurveda Wellness: Drawing on the Invincible Organizing Power of Nature to Create a New Wellness Center
Effectively running a health care practice requires the ability to apply a wide range of skills and expertise, including team work in collaboration with other health care providers, representing modern medicine and a variety of alternative approaches to health. It also requires knowledge of human resources management, networking, social media and modern marketing practices. In this course students will create a business plan which will reflect their ideal of a working clinic. It will forecast costs and revenues from their business and outline how it meets all laws governing health related activities. This course will help students to clearly envision their objectives and be confident in starting and managing a successful and enjoyable practice. Topics include: means for secure handling of patient records, finding locations that bring the most traffic, evaluating the costs and benefits of various clinic types, exploring marketing options including social media and presentations to media and the public; insurance, payroll, and financial requirements. (4 credits)

PH 324 Fundamentals of Effective Health Counseling: Awakening the Cosmic Potential of Communication
Interest in alternative health care, prevention and natural healing is growing. People coming to a health counselor in search for help are usually those who recognize the need for a different way of maintaining their health or can’t find relevant help from a conventional medical professional. An effective health counselor focuses on possibilities
instead of problems, emphasizes well-being and strength-based thinking, and establishes relationships with the client characterized by warmth, respect, genuineness, concreteness, and empathy. This course teaches how to establish trust and cooperation with a client, how to inspire and encourage clients to accomplish their health goals. Topics include: professional conduct and ethics; core communication skills; positive psychology approach in counseling; motivational interview; goal-oriented counseling. Role-play exercises provide students an opportunity to practice learned communication skills, and interview techniques and approaches. (4 credits)

**PH 330 Maharishi AyurVeda Science-Based Aromatherapy II: Probing Deeper into the Use of Nature’s Essences for Well-Being**

This course presents advanced knowledge of aromatherapy including the approach of Maharishi AyurVeda Aromatherapy, and its foundation in modern and Vedic science. Students will learn aspects of chemistry and biochemistry required for understanding of the basis of aromatherapy, as well as the therapeutic effects of aromatic molecules present in essential oils. Students will explore the effects of essential oils on different physiological systems in light of the discovery of Veda and Vedic Literature in human physiology by Tony Nader, MD, PhD. Students will deepen their understanding of how to select appropriate essential oils for well-being in accord with the principles of Maharishi AyurVeda Aromatherapy. The lab component of the course will provide students hands-on experience making blends and soft gels using essential oils and carrier oils most suitable for different skin and body types. This course includes public speaking exercises. Students completing the series of all four Maharishi AyurVeda Aromatherapy courses with a grade of “B” or higher will receive a Maharishi AyurVeda Aromatherapy Certificate. Materials fee: $10 Lab fee: $40 (4 credits) Prerequisite: PH 230

**PH 331 Maharishi AyurVeda Science-Based Aromatherapy III: Probing Deeper into the Use of Nature’s Essences for Well-Being and Exploring the Connections between Nature’s Essences and Human Physiology as the Expression of Veda**

This course continues to provide knowledge of aromatic molecules contained in essential oils, their structure and their therapeutic properties. Students will continue to explore and probe deeper into the connection between Maharishi AyurVeda Aromatherapy, human physiology, and Veda and the Vedic Literature. This will give students a profound, holistic understanding of Maharishi AyurVeda Aromatherapy. During this course, students will be practicing the knowledge through case studies and exercises. The lab component of this course will provide students hands-on experience of making facial and body creams and other preparations using essential oils and carrier oils most suitable for different skin and body types. This course includes public speaking exercises. Students completing the series of all four Maharishi AyurVeda Aromatherapy courses with a grade
of “B” or higher will receive a Maharishi AyurVeda Aromatherapy Certificate. Materials fee: $40 Lab fee: $40 (4 credits) Prerequisite: PH 330

**PH 332 Maharishi AyurVeda Science-Based Aromatherapy IV, Practicum: Using Essential Oils to Enliven the Inner Intelligence of Clients for Their Well-Being**

This practicum gives students an opportunity to build confidence while applying the knowledge gained in all the previous courses in Maharishi AyurVeda Aromatherapy. In a clinical setting, students will lead consultations, participate in discussions of case studies, and prepare blends and other preparations under the supervision of an expert. At the end of this course students will present a portfolio of case studies based on at least 20 clinical encounters. Students completing the series of all four Maharishi AyurVeda Aromatherapy courses with a grade of “B” or higher will receive a Maharishi AyurVeda Aromatherapy Certificate. Materials fee: $10 Lab fee: $25 (4 credits) Prerequisites: PH 331 and PH 431

*Note: The Maharishi AyurVeda Aromatherapy Certificate does not confer professional licensing status and Maharishi University of Management makes no representations regarding its economic or other value.*

**PH 398 Internship: Expanding the Knowledge of Physiology and Health in the Field**

Students observe and work in Maharishi Medical Centers or medical laboratories, schools or health care facilities in various aspects of health care, research, clinical operations, patient care, health education, etc. (4 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) *Prerequisites: consent of the department faculty and the Academic Standards Committee*

**PH 399 Directed Study: Gaining Total Knowledge through Self-Referral Education**

(variable credits) *Prerequisites: consent of the department faculty and the Academic Standards Committee*

**PH 412 Maharishi AyurVeda Herbology: Enlivening the Inner Intelligence of the Body with Herbs**

Herbs are a major component of Maharishi AyurVeda used to enliven the inner intelligence of the body and restore balance. After assessing a client, an ayurvedic consultant recommends a variety of healing modalities, including compound or single-form herbal preparations. This course provides the necessary knowledge of ayurvedic herbs and herbal compounds, their qualities and actions in human physiology, as well as their effects in various health conditions. It also familiarizes students with the methods used to prepare herbal compounds. *Topics include: an introduction to ayurvedic herbs,*
their properties, modes of action and uses; compound ayurvedic formulations, their indications and contra-indications; quality control and good manufacturing practices on a small scale. This course includes labs, public speaking presentations and literature review. In-Residence Lab fee: $50; Material fee: $25; Distance Education Lab fee: $50; (4 credits) Prerequisites: PH 262; Strongly recommended: PH 430 or PH 429

PH 429 Maharishi AyurVeda Consultant Training for Clinical Practice: Guiding Clients to Greater Health and Wellness with the Knowledge of Ayurveda
This course takes all of the principles of Maharishi AyurVeda learned thus far and gives students the opportunity to apply them in case studies. Students will learn about a range of common disorders and ayurvedic protocols for restoring balance. Students will practice putting together comprehensive recommendations to prepare them for an Ayurvedic Wellness Consultant practice. Topics include: restoring balance and creating harmony using herbs, diet, lifestyle recommendations, aromatherapy, yoga asanas, and other modalities described in Maharishi AyurVeda; basic and advanced principles of ayurvedic anatomy & physiology, including the relationship between consciousness, health, mind and the body; review of the ayurvedic approach to common dosha imbalances; general principles of how to bring balance to major aspects of health such as: mind and emotions, digestive health, women’s health, detoxification and more. Includes exercises in the form of case studies and practical presentation skills. (4 credits) Prerequisites: PH 262

PH 430 Maharishi AyurVeda Wellness Consultant Training: Learning How to Guide Clients to Wellness and Health
This course prepares students to consult with clients, family, and friends, helping them achieve higher levels of health and wellness through Maharishi AyurVeda. Students will understand and apply the knowledge of mind-body types, and the dietary and lifestyle origins of imbalance. Topics include: ayurvedic anatomy and physiology; the role of consciousness at the basis of physiology; the use of ayurvedic pulse reading to detect the level and the root cause of imbalance; the means to restore balance with the use of herbs, diet, aromatherapy, Maharishi Yoga Asanas, and other modalities of Maharishi AyurVeda; protocols for common imbalances; and how to obtain and retain clients in the wellness consultant practice. Includes case workshops and public speaking presentations. Materials fee: $80 (8 credits) Prerequisites: BIO 266 and PH 262

PH 431 Maharishi AyurVeda Wellness Consultant Practicum: Practicing How to Guide Clients to Wellness and Health
During this course, students get practical experience of the knowledge gained in all the previous courses in Maharishi AyurVeda, and build confidence in consulting with clients, family, and friends to guide them to higher levels of health and wellness. In the clinical
setting, students take turns leading consultations, and participate in discussions of case studies under the supervision of experts in Maharishi AyurVeda and modern medicine. By the end of this course students are required to complete their major capstone project, consisting of a reflection paper and a portfolio of case studies based on at least 50 clinical encounters (including observation, student/client encounter with direct supervision and one-on-one cases). (4 credits – may be repeated for credit up to four times with the permission of the department Academic Advisor, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course. This course is limited in size, with preference given to seniors and students who require this course to meet their graduation requirements) This is a writing intensive course. Materials fee: $30 for the lab coat (required first time this course is taken, optional when repeated) Prerequisites: PH 430 or PH 429, and PH 263

Note: This course is designed to provide practice of how to advise others in developing a personalized approach to health and wellness based on the principles of Maharishi AyurVeda. Regulations regarding health care practice and professional licensure standards vary by state and country. Course participants should be familiar with the laws of the jurisdiction in which they intend to be active to ensure that the scope of their activities does not violate regulations regarding health care practice. Becoming a Maharishi AyurVeda Wellness Consultant does not confer professional licensing status and Maharishi University of Management makes no representations regarding its economic or other value.

PH 450 Teaching Practicum: Developing Skill in Action in the Field of Health Care Education
This course is designed to allow advanced undergraduate students of good academic standing the opportunity to assist an instructor in teaching a course. It is especially recommended for those students who plan to go into a teaching career or who expect to help finance graduate work through teaching assistantships. In most cases it will involve helping the instructor with course planning and preparation, small discussion groups, and homework and quiz grading. Some lecture and lab preparation, and presentations may also be included as a teaching experience. (4 credits) Prerequisite: consent of Program Director

Graduate Courses

Master of Science in Maharishi AyurVeda and Integrative Medicine
Note: Some courses are split into two parts to fit the academic calendar. These are designated as part A and part B, as necessary.
PH 497 First Year Orientation: Creating a Foundation for the Study of Consciousness-Based Health Care.
This five-day, in-residence course will orient new students to the principles of Maharishi AyurVeda, give an overview of the scope of the discipline, and give personal instruction in pulse diagnosis, the principle diagnostic procedure of this science. Students will meet the instructors and their classmates and begin to build a learning community that will last for the three years of the program and beyond. Student may also have an opportunity to learn the Transcendental Meditation technique, if they have not done so. (Note: Transcendental Meditation is a separate course with separate financial requirements). 
Prerequisite: Acceptance to MS program

PH 500 Basic Principles of Prevention, Diagnosis and Treatment in Maharishi AyurVeda I: Understanding the Foundations of Consciousness-Based, Prevention-Oriented Health Care
This course presents the foundations of natural, prevention-oriented health care, including ayurvedic anatomy, physiology, digestion and metabolism, ayurvedic herbology, pulse assessment, mental health, and clinical approach to basic common disorders. (6 credits) 
Prerequisite: Acceptance to MS program – Distance Education or DE for Medical Students track
Note: This course may be waived if student has completed equivalent training and passes a qualifying exam.

PH 501 Basic Principles of Prevention, Diagnosis and Treatment in Maharishi AyurVeda II and Other Systems of Natural Medicine: Exploring the Wide Range of Possibilities to Restore and Maintain Perfect Health
In this course students will experience 5 mini courses in Maharishi AyurVeda: Musculoskeletal Health, Total Heart Health, Your Healthy Gut, Women’s Health, and Mental Health. These mini courses will apply principles learned in the first course to specific systems, and begin to prepare students to teach these mini courses in the field. They will apply ayurvedic herbology, diagnosis, and pulse in these areas. New topics include ayurvedic internal medicine (Kaya Chikitsa), Yoga Asanas, rejuvenation and purification therapies (Pancha Karma), Vedic architecture, biorhythms and Vedic prediction (Jyotish). The course also provides an introduction to Traditional Chinese medicine and homeopathy. (6 credits) Prerequisite: PH 500 or qualifying exam
Note: This course may be waived if student has completed equivalent training with grade ‘B’ or higher and passes a qualifying exam.

PH 502 Musculoskeletal System: Enlivening the Structural Intelligence of the Body
This course begins the in-depth study of the ayurvedic approach to the eight organ systems. The focus is on the anatomy and physiology of the musculoskeletal system, and
on the pathophysiology, prevention, diagnosis, and treatment of the main disorders in the 
system from the perspective of Maharishi AyurVeda. Disorders covered include various 
muscular pain and myopathies, which are among the most common complaints in modern 
society. This course also presents an introduction to other systems of natural medicine: 
osteopathy and chiropractic medicine. (3 credits) **Prerequisite:** PH 501 or qualifying 
exam

**PH 503 Cardiovascular/Renal System: Enlivening the Intelligence of the Fluid 
Systems of the Body**
This course presents the knowledge of the anatomy and physiology of the cardiovascular 
and renal systems, and of the pathophysiology, prevention, diagnosis, and treatment of 
cardiovascular/renal disorders from the perspective of Maharishi AyurVeda and other 
natural health care approaches. This course goes deep into the Total Heart Health 
program, a comprehensive program to treat and prevent heart disease and its risk factors, 
including hypertension, obesity, diabetes, and stress; and covers renal disorders such as 
renal failure, cystitis, kidney stones, and urinary tract infections. (3 credits) **Prerequisite:** 
PH 502

**PH 504 Digestive System and Metabolism: Enlivening the Digestive Intelligence of 
the Body**
The health of the digestive system is critical for immunity, strength, and healthy tissues. 
The focus is on the anatomy and physiology of the digestive system and metabolism, and 
on the pathophysiology, prevention, diagnosis, and treatment of their main disorders from 
the perspective of Maharishi AyurVeda. This course goes deeply into the principal 
disorders of the digestive system, including indigestion, hyperacidity, GERD, irritable 
bowel, and constipation. (3 credits) **Prerequisite:** PH 503

**PH 505 Pulmonary System and ENT: Enlivening Prana – the Life Breath**
This course focuses on the anatomy and physiology of the pulmonary system and ENT, 
and on the pathophysiology, prevention, diagnosis, and treatment of their main disorders 
from the perspective of Maharishi AyurVeda. It investigates the main disorders of the 
respiratory system including common cold, influenza, asthma, and COPD. This course 
also provides an overview of imbalances in ears, nose, and throat, and an introduction to 
other systems’ approach to respiratory imbalances. (3 credits) **Prerequisite:** PH 504

**PH 506 Articular System: Awakening the Intelligence within the Gaps of the 
Physiology**
Joint disorders are very common, often debilitating disorders in modern society. This 
course addresses different types of arthritis and joint disorders, and investigates their 
causes, symptoms, and means of alleviation from the perspective of Maharishi AyurVeda
and other natural systems. The focus is on the anatomy and physiology of the articular system, and on the pathophysiology, prevention, diagnosis, and treatment of the main disorders in the system from the perspective of Maharishi AyurVeda. (2 credits)  
Prerequisite: PH 505

**PH 507 Endocrine/Reproductive System: Enlivening the Inner Intelligence of the Hormonal System in the Body**

In this course the students will learn about obstetrics, gynecology, men's health, and pediatrics. The endocrine system, along with the nervous system, is the master controller of all physiological functions. This course covers the various hormonal and reproductive disorders, including thyroid, adrenal, and reproductive problems. The focus is on the anatomy and physiology of the system, and on the pathophysiology, prevention, diagnosis, and treatment of its main disorders from the perspective of Maharishi AyurVeda. (3 credits) Prerequisite: PH 506

**PH 508A, PH 508B Hematologic/Immunologic System: Enlivening Ojas – the Subtle Essence of the Tissues Responsible for Health and Immunity**

In Maharishi AyurVeda, the health of the blood and plasma is the basis for the nourishment and health of all the other systems. This course presents the common disorders of the cellular components of the blood and immune system, and their causes, diagnosis, and treatment from the perspective of Maharishi AyurVeda and other systems of natural health care. (4 credits) Prerequisite: PH 507

**PH 509 Nervous System and Skin: Enlivening the Master Control System of the Body**

The nervous system, along with the endocrine system, is responsible for controlling every physiological function, as well as our experience in consciousness. The focus is on the anatomy and physiology of this critical system, and on the pathophysiology, prevention, diagnosis, and treatment of its main disorders from the perspective of Maharishi AyurVeda and other systems of natural health care. (4 credits) Prerequisite: PH 508

**PH 510 First Year Clinical Training: Putting Knowledge of Prevention-Oriented Health Care into Practice**

This five-day, in-residence intensive gives students an opportunity to review and practice all that has been learned in their first year of study by providing wellness consultations to live clients under the supervision of experienced clinical faculty. (1 credit) Prerequisite: PH 500
PH 511 Second Year Clinical Training: Perfecting the Practical Application of Natural Health Care
This five-day, in-residence intensive gives students an opportunity to review and practice all that has been learned in their second year of study by providing wellness consultations to live clients under the supervision of experienced clinical faculty. (1 credit)
Prerequisite: PH 504

PH 512 Third Year Clinical Training: Integrating and Expressing the Total Knowledge of Life in Perfect Health
This five-day, in-residence intensive gives students an opportunity to review and practice all the knowledge gained during the course of their studies by providing wellness consultations to live clients under the supervision of experienced clinical faculty. The students’ didactic and clinical competence will be evaluated. (1 credit) Prerequisite: PH 508

PH 515 Practicum with Clinical Cases: Establishing Confidence and Expertise in the Practice of the Total Knowledge of Life in Perfect Health
This in-residence clinical intensive gives students an opportunity to get more practical experience and integrate the knowledge gained during the course of their studies by seeing live clients with experienced clinical faculty. The students’ didactic and clinical competence will be evaluated. (Variable credits, repeatable for credit) Prerequisite: Graduation from MS MAVIM program

PH 559 Clinical Fieldwork: Guiding Clients to Health
In this course, students will see an extensive series of patients; conduct complete evaluations, including pulse diagnosis, clinical interview, clinical observation, tongue diagnosis; and compose appropriate recommendations for restoring balance, including diet, lifestyle modification, herbs, five-sense therapies, environmental therapies, meditation, Yoga Asanas, etc. (Variable credits. One credit per 12 cases. May be repeated for credit.) Applies toward Certificate or MS credits.

PH 582 Research Methods: Discovering the Orderly, Systematic, and Verifiable Progression of Natural Law
Students will learn to review the scientific literature and develop their own study designs most applicable to evidence-based integrative medicine. These include experimental and quasi-experimental designs, case control, prospective and retrospective observational designs, patient-centered-research, systematic reviews and meta-analysis, and whole systems research. Particular emphasis will be placed on understanding each design in terms of potential confounds (internal and external threats to validity). Students will gain
practice in critically reviewing the rationale, methods, results, and discussion in the published medical research literature. (4 credits)

**PH 583 Biostatistics: Measuring and Quantifying the Progression of Natural Law**
Students will learn introductory and intermediate-level statistics applicable to evidence-based integrative medicine research. These include dependent and independent t-tests, chi squared tests, analysis of variance and analysis of covariance, correlation, and multiple regression models. Students will work with original datasets throughout the course. (4 credits)

**PH 584 Maharishi AyurVeda Course on Self-Pulse Reading for Good Health:**
*Measuring the Impulses of the Body’s Intelligence and Restoring Balance in the Physiology through the Touch of Three Fingertips*
Self-Pulse Reading is the most ancient and most natural means of determining the level of balance or imbalance in the mind and body. Taking the pulse enlivens the connection between mind and body, consciousness and matter. Furthermore, the procedure of taking the pulse produces a balancing effect on the mind and body. This course presents Maharishi’s revival of this ancient technology. In this course students will learn how to read their pulse and detect imbalances early, before they manifest as symptoms of a disease; how to determine where imbalances are; and how to restore balance. This course includes public speaking exercises. Materials fee: $6 (4 credits)

**PH 585 Maharishi AyurVeda Course on Diet, Digestion, and Nutrition:**
*Imbibing Intelligence from Food and the Environment — Enlivening Strong Digestion and Selecting a Diet Ideally Suited to the Individual*
Diet, digestion, and nutrition are fundamental to health. How we metabolize food and drink directly affects the strength, vitality, immunity, and longevity of the physiology. This course provides very practical knowledge of what to eat, when to eat, and how to eat to maintain or restore perfect balance of the three doshas – the three principal governing qualities of intelligence in the body. Topics include: influence of consciousness on the process of digestion and nutrition, effects of different foods on physiology, categories of food according to their influence on the three doshas, and basic principles of Dravya Guna (Materia Medica) – Vedic herbology. This course includes public speaking exercises. Based on availability, ayurvedic cooking demonstrations are included. Materials fee: $30 (4 credits) Prerequisite: PH 584

**PH 586 Maharishi Yoga Asanas:**
*Vedic Exercise to Enliven Mind-Body Coordination to Support Pure Awareness, the State of Yoga*
Yoga is one of the 40 aspects of the Veda and Vedic Literature representing unifying quality of consciousness. According to Maharishi, Yoga provides technologies to unfold
the experience of the unified level of consciousness or Transcendental Consciousness. The theoretical part of this unique course presents the knowledge of Yoga as unity and provides understanding of the specific effects of Yoga Asanas on the mind and body, physiology and consciousness. Proper practice of Yoga Asanas – a major aspect of this course – provides students with the experience of deep relaxation, bliss, and expansion of awareness. This course includes public speaking exercises on the effects of Yoga Asanas on specific mental and physical health conditions, and the readings of Maharishi’s commentary to the Bhagavad-Gita as the essence of Vedic knowledge and the discipline of Yoga. Materials fee: $5 (4 credits)

PH 595 Advanced Topics in Physiology
This course will delve deeply into the physiology of selected organ systems involved in the thesis research themes of the program with highlights of advances relevant to evidence based integrative medicine research. Examples of these include the cardiovascular system, nervous system, endocrine system, and immune system.

PH 596 Research Practicum
During this course, PhD students will work with the supervision of one of the doctoral program senior faculty on an active research project, e.g. original research paper, review article or grant proposal. The course will offer an opportunity for students to develop research skills from the beginning of the program through hands-on experience in research activities such as literature review, data collection, data analysis, interpretation, report writing (2 credits per semester, 4 credits required as part of core curriculum).

PH 601 Preparation for Qualifying Examination
Students will take exams (oral or written) in each of the following areas: 1) research methods, 2) biostatistics, and 3) a substantive area related to their proposed dissertation research. Prerequisite: successful completion of the core curriculum (4 credits; may be repeated for credit)

PH 700 Dissertation Proposal Preparation: Integrating and Expressing Total Knowledge of Health
Each student selects a dissertation committee and submits a dissertation topic to the graduate faculty for approval. Following acceptance of the dissertation topic, the student prepares the dissertation research proposal, which is evaluated by the dissertation committee. (8 credits per semester — may be repeated for credit until dissertation is completed) Prerequisites: PhD candidate status and consent of the dissertation advisor
PH 701 Dissertation Research: Celebrating Mastery of Total Knowledge of Health

Students conduct original research and prepare their dissertations during their third and fourth years in the program. Any changes in dissertation topic must be approved by the dissertation committee. (8 credits per semester — may be repeated for credit until dissertation is completed) Prerequisites: approval of the dissertation proposal and consent of the dissertation committee
DEPARTMENT OF SUSTAINABLE LIVING

FACULTY

• John Fagan, PhD, Dean of Sustainable Living
• Sam James, PhD, Chair of the Department of Sustainable Living, Associate Professor of Sustainable Living and Regenerative Organic Agriculture
• Kari Bedi, MBA, Associate Chair of the Department of Sustainable Living
• Steve McLaskey, PhD, Assistant Professor of Regenerative Organic Agriculture
• Ralph Hearn, MScENG, Assistant Professor of Sustainable Energy Systems
• Tejasvi Sharma, PhD, MBA, Assistant Professor of Sustainable Energy Systems
• Yashaswini Sharma, PhD, Visiting Research Scholar, Assistant Professor of Horticulture
• Caroline Akachuku, PhD, Visiting Research Scholar, Professor of Agroforestry and Environmental Management
• Jesse Dann, PhD, Adjunct Associate Professor of Sustainable Living
• Phil Hawes, PhD, Adjunct Assistant Professor of Sustainable Living
• Ben Hokschi, MS, Adjunct Instructor of Sustainable Living

INTRODUCTION

The Department of Sustainable Living explores the leading edge of sustainability. Our curriculum and facilities grow and adapt with evolving global understandings around sustainable living and development.

Sustainability integrates the human economy with the economy of nature. This means renewing and restoring human capital -- the relationships and communities on which the human economy depends -- and supporting humanity to be in touch with its own internal, spiritual nature.

Sustainable Living programs build an understanding of how to think critically when considering the design and flourishing of manmade and natural systems. We engage students in the process of learning through hands-on projects, problem solving, question building, journaling, researching, teaching, and collaborating.

Maharishi University of Management is the first university in the world to expand the scope of sustainable living to include knowledge of how to live in accord with natural law. As we approach the world’s environmental, societal, and economic problems, from local to global, we develop ever-greater creativity and intelligence.
VISION STATEMENT

Our vision is to create a world based on integrity, collaboration, non-violence, aspirations, and positive impact for perpetual well-being. We view consciousness as essential to perceive and participate in the interconnectedness of deep sustainability. Through collaboration within our communities, we locally model our unique contribution to develop global sustainability. We graduate leaders who apply holistic, solutions-oriented approaches for systemic impact in sustainable community development.

PROGRAMS OFFERED

Degree Programs

BA in Sustainable Living (BA-SL) – Interact with evolving green technologies and adapt the principles of deep sustainability to any system in order to implement sustainable practices in support of various careers, further study, or research. See Departmental Requirements below.

BA-SL program learning outcomes:

• Analyze complex systems within and between societal, economic, and environmental sectors;
• Create a vision of sustainable futures based on possible actions, which, if taken now, can alter the intended and unintended consequences of current trends;
• Describe their own and others values in the interest of reconciling and negotiating sustainability values and targets;
• Design, implement, and evaluate projects against specific criteria for success; and
• Work well together in groups to communicate effectively, solve problems, and resolve intra-group conflicts.

BA in Regenerative Organic Agriculture (BA-ROA) – Confidently implement organic agriculture practices, including farm planning, nurturing healthy soil and crops, season extension, crop storage, and go-to-market strategies. See Departmental Requirements below.

BA-ROA program learning outcomes:

• Solve problems related to plant growth, crop production, and natural resource management using moral and ethical, as well as practical considerations;
• Develop a farm planting and production plan using principles from the study of plant growth, crop production, nutrient management, pest management, harvest and post harvest practices;

• Manage soil quality to improve fertility as well as reduce erosion and improve water quality and availability;

• Explain how regenerative organic agriculture contributes to the current and future state of the society, the economy, and environment; and

• Explain the relationship between the development of consciousness and the success of organic farmers and their enterprise.

**Minor in Sustainable Living** – Practical foundation for understanding the principles and practices of deep sustainability within a chosen module or the set of foundational courses. See Departmental Requirements below.

**Minor in Regenerative Organic Agriculture** – Practical foundation in organic agriculture principles and best practices within a set module. See Departmental Requirements below.

**Certificate Programs**

**Certificate in Regenerative Organic Agriculture** – A 9-month, non-credit certificate program that combines classroom instruction with six months of fieldwork to learn all facets of organic agriculture, from starting seeds to post-harvest field preparation. See Departmental Requirements below.

**Certificate in Permaculture Design (PDC)** – A 4-week (82-hour), nationally recognized, non-credit certificate program that combines classroom instruction with hands-on projects for full immersion in ecosystem thinking and whole systems design. See course description in Courses below.

* Certificate program courses may be taken for credit and applied toward either the BA-ROA or BA-SL degree programs.

**SPECIAL FEATURES**

• In response to critical pressure on our planet’s natural resources, the programs of Sustainable Living focus on **pragmatic skills and knowledge** that support the provision of sustainable energy, food, water, waste services, and the development of essential public policy that underlies the ubiquitous provision of these services.

• The widespread adoption of regenerative technologies depends on the **development of a new and more holistic worldview** – one that is rooted in an understanding of natural systems, humans’ place in them, and the development of non-exploitative, cooperative relationships among humans and between humans and nature. We need a
fundamental change in the philosophy and theory that guides human relationships with each other and the rest of nature. David Korten calls the old exploitation and extraction-based worldview the Empire story, and the new cooperative worldview Earth Community.

- At Maharishi University of Management, the experiential basis of a change in worldview to Earth Community is the simple practice of the Transcendental Meditation technique. Regular meditation combined with dynamic activity in daily life leads to the development of higher states of consciousness, making the new worldview not just an intellectual idea but also a lived reality.

In addition to the outer pragmatic skills necessary for physically designing and building a sustainable world, our program provides the inner foundation for the creation of a new outer world. This inner foundation includes the development of consciousness and the supporting intellectual understanding about the fundamental philosophy and social, political, and economic theory underlying this new worldview.

- See in action what you learn. Using a combination of wind, solar, geothermal, rainwater collection, sustainable agriculture, and natural building materials, the Sustainable Living Department is one example of many in a small town that showcases an abundance of sustainable community development initiatives, including the 1.1 million watt state-of-the-art solar power plant designed to provide one-third of the university’s electric power.

From theory, to hands-on projects with professors, to local action, students get to witness homeowners, entrepreneurs, and organizations making a difference – doing well and doing good.

- BA students earn 4-16 credits of internships in on-the-job training, working with organizations in sustainable agriculture, renewable energy, green building, environmental projects, green business, and many other venues that provide practical experience in selected areas of interest.

- Both BA-SL and BA-ROA programs offer community college graduates and transfer students a two-year curriculum path when entering the program with specific general education requirements fulfilled. Talk with an academic advisor for more information.

DEPARTMENTAL REQUIREMENTS

Graduation Requirements for the Bachelor of Arts Degree in Sustainable Living

To graduate with a BA in Sustainable Living (BA-SL), students must successfully complete all requirements for the bachelor’s degree. Please refer to “Degree Requirements” in the “Academic Policies” section of this catalog. As part of the
requirements for the BA-SL, students must complete **52 credits** of course work as follows:

**16 credits of Sustainable Living core courses:**

- SL—G101 Permaculture Design (4 credits)
- SL—P250 Global Sustainability (4 credits)
- SL—E101 Energy and Sustainability (4 credits)
- SL—G201 CCTS: Ecology (4 credits)

**plus 24 credits of electives from Sustainable Living designated courses:**

Elective credits may be concentrated in a specific subject area for more in-depth study and to achieve an area of emphasis within Sustainable Living or fulfilled with stand-alone Sustainable Living courses of interest.

**plus 4 credits of Sustainable Living Internship:**

- SL—G398 Internship (4-16 credits)

Note: Students may request to have up to 12 additional credits of Sustainable Living Internship to fulfill graduation requirements, for a total of 16 credits of internship. A maximum of 16 credits are allowed for internship and directed study.

**plus 8 credits of Sustainable Living Senior Project:**

- SL—G401 Senior Project (8 credits)

Note: Students may include 4 additional credits under Senior Sustainable Living Project Prep, SL—G400, to fulfill graduation requirements, for a total of 12 credits to complete their senior project.

**plus**

- Completion of the SL Senior Survey

**plus optional**

- Presentation of Senior Project, for graduating seniors that would like to be nominated to represent the SL Department and showcase their project work in the annual Senior Project Competition held in June. Students must notify their academic advisor or project advisor of interest in presenting their Senior Project 6 weeks prior to the competition.

**Graduation Requirements for an Area of Emphasis within Sustainable Living**

To graduate with an area of emphasis within the Sustainable Living degree program, students must complete **20 credits** from a specific subject area. Credits toward an area of emphasis may be accepted from Sustainable Living designated courses including qualifying internship and senior project credits in one of the following subject areas:

- Regenerative Agriculture
Graduation Requirements for the Minor in Sustainable Living

To graduate with a minor in Sustainable Living, students must complete **20 credits** of Sustainable Living designated courses. The credits are best gained in a module of in-depth study, but may also be gained with SL elective courses of interest.

Note: Alternatively, students may choose to take the 16-credit module of SL core courses plus one 4-credit SL elective for a total of 20 credits.

Graduation Requirements for Specialization in Sustainable Living

A specialization is a standalone, secondary area of study that can complement a wide array of majors and develops a deeper skill level beyond a minor.

To graduate with a specialization in Sustainable Living, students must successfully complete **32 credits** of course work as follows:

*12 credits of the following Sustainable Living core courses:*

- SL—G101 Permaculture Design (4 credits)
- SL—P250 Global Sustainability (4 credits)
- SL—E101 Energy and Sustainability (4 credits)
- SL—G201 CCTS: Ecology (4 credits)

*plus 20 credits of electives from Sustainable Living designated courses:*

Elective credits may be concentrated in a specific subject area for more in-depth study or fulfilled with stand-alone Sustainable Living courses of interest.

Graduation Requirements for the Bachelor of Arts Degree in Regenerative Organic Agriculture

To graduate with a BA in Regenerative Organic Agriculture (BA-ROA), students must successfully complete all requirements for the bachelor’s degree. Please refer to “Degree Requirements” in the “Academic Policies” section of this catalog. As part of the requirements for the BA-ROA, students must complete **50 credits** of course work as follows:

*4 credits of Regenerative Organic Agriculture student development courses:*

- FOR 326 Consciousness and the Future of Agriculture, Part 1 (2 credits)
- FOR 330 Consciousness and the Future of Agriculture, Part 2 (2 credits)

*plus 16 credits of Regenerative Organic Agriculture core courses:*

- SL—G101 Permaculture Design (4 credits)
• SL—G201 CCTS: Ecology (4 credits)
• SL—A200 Practices in Regenerative Organic Farming (4 credits)
• SL—A340 Soil Science (4 credits)

*plus 18 credits of Regenerative Organic Agriculture fieldwork and workshops:*

• SL—A341 How to Prepare Your Organic Field (3 credits)
• SL—A342 Planting, Plant Care, and Maintenance (3 credits)
• SL—A343 Pest Scouting and Weed Management (3 credits)
• SL—A344 Harvesting and Succession Planting (3 credits)
• SL—A345 Cold Season Cropping and Season Extension Methods (3 credits)
• SL—A346 Long-Term Storage Crops, End-of-Season Preparation, and Capstone (3 credits)

*plus 12 credits of Regenerative Organic Agriculture Internship:*

• SL—G398 Internship (12-16 credits)

Note: Students may request to include 4 additional credits of Regenerative Organic Internship to fulfill graduation requirements, for a total of 16 credits of internship. A maximum of 16 credits are allowed for internship and directed study.

*plus*

• Completion of the ROA Senior Survey

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**Graduation Requirements for the Minor in Regenerative Organic Agriculture**

To graduate with a minor in Regenerative Organic Agriculture (ROA), students must complete 20 credits of course work as follows:

• SL—A200 Practices in Regenerative Organic Farming (4 credits)
• SL—A340 Soil Science (4 credits)
• SL—A341 How to Prepare Your Organic Field (3 credits)
• SL—A342 Planting, Plant Care, and Maintenance (3 credits)
• SL—A343 Pest Scouting and Weed Management (3 credits)
• SL—A344 Harvesting and Succession Planting (3 credits)

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**CERTIFICATE REQUIREMENTS**

**Requirements for Permaculture Design Certificate**

To earn a Permaculture Design Certificate (PDC), students must complete 5 credits as follows:
I credit of PDC prerequisite:

- MVS-100 The Transcendental Meditation Program (1 credit; waived if the student learned prior to enrolling)

plus the 4-credit standardize training course:

- SL—G101 Permaculture Design (4 credits)

Requirements for Regenerative Organic Agriculture Certificate

To receive a certificate in Regenerative Organic Agriculture, students must complete 31 credits as follows:

I credit of Regenerative Organic Agriculture certificate prerequisite:

- MVS-100 The Transcendental Meditation Program (1 credit; waived if the student learned prior to enrolling)

plus 4 credits of Regenerative Organic Agriculture student development courses:

- FOR 326 Consciousness and the Future of Agriculture, STC part 1 (2 credits)
- FOR 330 Consciousness and the Future of Agriculture, STC part 2 (2 credits)

plus 26 credits of Regenerative Organic Agriculture courses:

- SL—A200 Practices in Regenerative Organic Farming (4 credits)
- SL—A340 Soil Science (4 credits)
- SL—A341 How to Prepare Your Organic Field (3 credits)
- SL—A342 Planting, Plant Care, and Maintenance (3 credits)
- SL—A343 Pest Scouting and Weed Management (3 credits)
- SL—A344 Harvesting and Succession Planting (3 credits)
- SL—A345 Cold Season Cropping and Season Extension Methods (3 credits)
- SL—A346 Long-Term Storage Crops, End-of-Season Preparation, and Capstone (3 credits)

Learning Modules

Our goal is to give students the skills to rethink every aspect of human endeavor in terms of sustainability. To complement this breadth, we provide integrated learning in key areas through learning modules.

The module format, whether made up of sequential or non-sequential courses, is designed to yield a holistic level of depth in the subject area that may not be obtained by taking just part of it. This format also provides potential for a cohort system, in which a group of students move through a sequence of courses together, offering the advantage of both intellectual and social connections.
Below is a listing of the current academic year’s learning modules and the courses that comprise them – Modules and courses adapt and evolve from year to year. Some courses are listed in more than one module. For details on each course including prerequisites, see the list of courses in numerical order in the “Courses” section below.

**Fundamentals of Sustainability (16 credits)**

Taken together, the core precepts of Sustainable Living represent a new way of thinking about humanity's presence on the earth and its place in the universe - from systems thinking and global considerations to critical thinking and interrelationships.

- SL—G101 Permaculture Design (4 credits)
- SL—P250 Global Sustainability (4 credits)
- SL—E101 Energy and Sustainability (4 credits)
- SL—G201 CCTS: Ecology (4 credits)

**Regenerative Organic Agriculture (30 credits)**

Combines classroom instruction with six months of fieldwork and workshops learning all facets of organic agriculture, from starting seeds to post-harvest market and field preparation.

- FOR 326 Consciousness and the Future of Agriculture, Part 1 (2 credits)
- SL—A200 Practices in Regenerative Organic Farming (4 credits)
- SL—A340 Soil Science (4 credits)
- SL—A341 How to Prepare Your Organic Field (3 credits)
- SL—A342 Planting, Plant Care, and Maintenance (3 credits)
- SL—A343 Pest Scouting and Weed Management (3 credits)
- FOR 330 Consciousness and the Future of Agriculture, Part 2 (2 credits)
- SL—A344 Harvesting and Succession Planting (3 credits)
- SL—A345 Cold Season Cropping and Season Extension Methods (3 credits)
- SL—A346 Long-Term Storage Crops, End-of-Season Preparation, and Capstone (3 credits)

**Planning for Change (8 credits)**

From the change within, to acting locally, to the big global perspective – leadership is key. Develop an ecology of transformative practices that support transforming mindsets, cultures, and social systems in service of sustainable change.

- SL—P301 Becoming a Change Agent for Sustainability (4 credits)
- SL—P250 Global Sustainability (4 credits)
Ecological Design (12 credits)
Using whole-system design to work with nature in meeting the needs of the present and utilizing regeneration principles in support of healthier ecosystems for the future.
• SL—G101 Permaculture Design (4 credits)
• SL—B300 Designing for Eutopia: An Ecological Sustainable Neighborhood (8 credits)

Sustainable Production (20 credits)
Learn about various production systems for food, wellness, and value-added products.
• SL—A100 Fundamentals of Organic Horticulture & Plant Propagation (4 credits)
• SL—G241 Wild Food: Harvesting, Production, & Cooking (4 credits)
• SL—G241 Extraction & Utilization of Essential Oils (4 credits)
• SL—A103 Sustainable Organic Agroforestry Food Production Systems (4 credits)
• SL—G109 Art & Science of Apiculture: Organic Honey Production (4 credits)

Natural Science and Foundations of Sustainability (16 credits)
Dive into the building blocks of our economy.
• SL—G201 CCTS: Ecology (4 credits)
• SL—G195 Living Systems (4 credits)
• SL—G280 Ethnobotanical & Chemical Ecological Studies of Temperate & Tropical Forest Food Plants (4 credits)
• SL—G355 Earth Materials (4 credits)

COURSES

SL—A100 Organic Horticulture and Plant Propagation
Horticulture is the science and art of growing garden plants - fruits, vegetables, herbs and spices, flowers, and medicinal and aromatic plants. Students gain basic skills of organic horticulture, including the scope and importance of garden crops, crop classification, nursing young seedlings, and garden planning. They also learn different techniques of plant propagation, including grafting, budding, and layering. Course fee: $20 (4 credits)

SL—A103 Sustainable Organic Agroforestry Food Production Systems
Definition of sustainable organic agroforestry food production; the need for agroforestry food production systems; benefits and challenges of the systems; role of agroforestry in soil conservation; species selection and components of agroforestry systems; climate change. Field studies and laboratory practicals shall be carried out. Course fee: $40 (4 credits)

Regenerative organic farming practices using locally available resources. Students will learn basic botany related to seed production and different types of seeds, such as heirloom, hybrids, and genetically modified seeds. They will also learn farm layout and land preparation, methods of planting, plant care, and soil and nutrient management. There will be fieldwork sessions on planting systems and irrigation methods. Other topics include strategies for building soil organic matter, composting, basic entomology, low-cost pest management methods, and using “weeds” to support farm crops. (4 credits)

SL—A202: Biodynamic Agriculture

This course covers the general principles and practices of biodynamic agriculture. Students will learn soil fertility, crop rotation, cover crops and green manures, biodynamic preparations, biodiversity, pest and weed control, use of lunar calendar in farming, as well as organic and biodynamic agriculture certification standards. During the first week students will be introduced to biodynamic agriculture, understand Rudolf Steiner's 8 lecture ‘Agriculture course’ through the lens of modern science and Vedic roots of biodynamic agriculture. In the second week the discussions will be on understanding ‘Farm a living organism,’ Biodynamic Principles and Practices, making biodynamic preparations and using them in diverse field conditions. During the third week students will learn biodynamic approaches to nutrient and pest management utilizing the local resources and weed utilization. Weeds will be used in composting; making liquid formulations for crop production and those that are edible will be used as food or medicine. The final week will comprise of using the lunar planting calendar in farming, peppering techniques, and the importance of cows and designing a cow-centric farming system will be discussed. Course Fee: $65 (4 credits)

SL—A205 Agriculture and Food Certification (Offered according to demand)

Globalization of the agri-food system and the complex challenges in the present food supply chain and safety has necessitated the importance for inspection and certification. To ensure quality and safety, independent organizations provide assurance to the stakeholders. Such independent organizations or third parties are private or public organizations responsible for accessing, evaluating, and certifying safety and quality claims based on a particular set of standards and compliance methods. Food certification provides assurances about a product to consumers and traders by providing information about the commodity and its production processes. This course will provide practical understanding of standards and certification processes for Organic and Biodynamic Agriculture, SQF, BRC, HACCP, Non-GMO project, and Global GAP. Upon successful
completion, the students will receive a certificate from Demeter Association and Cert ID. Lab fee: $65 (4 credits)

SL—A206 Medicinal Herbs for Health & Nutrition
Herbal medicines are in great demand in recent years for primary health care because of their efficacy, safety, and lesser side effects. This course provides knowledge of the importance of herbal medicines on health and nutrition and for addressing common ailments. We will also cover ethnobotany and cultivation of various herbs - basil, mints, sage, rosemary, thyme, chives, oregano, chamomile, ginseng, licorice, garlic, ginger, onion - along with harvesting, processing, and method of usage. Course fee: $65 (4 credits)

SL—A340 Soil Science (Offered annually)
The study and management of soils as natural bodies, as media for plant growth, and as components of the larger ecosystem. Students learn basic concepts of all aspects of soil science including factors and processes responsible for soil development; physical, chemical, and biological properties; soil water; classification and mapping; and soil fertility. Introduction of the relationships of soil to current concerns such as environmental quality and non-agricultural land use. This course would instill awareness of soil as a basic natural resource, the use or abuse of which has a considerable influence on human society and life in general. (4 credits)

SL—A341 How to Prepare Your Organic Field (Offered annually)
This course will acquaint students with the observational approach required to prepare their fields, and to begin planting. Students will observe variables such as soil temperature, air temperature, moisture, condition of planting areas and condition of seeds/transplants. At this time, cultural practices such as soil testing, soil amending, tillage, bed preparation, row cover/low tunnel installation, fertilization and irrigation installation, with an emphasis on timely implementation, will also be covered. Students will be seeding in the greenhouse during this time. (3 credits) Prerequisites: SL—A202 and SL—A340, or consent of faculty

SL—A342 Planting, Plant Care, and Maintenance (Offered annually)
Students will be learning and applying the basics of caring for crops in the greenhouse and transplanting the seedlings into their fields. Succession planting will be highlighted as cold season crops will be direct seeded in successions, and warm-season crop successions will be seeded in the greenhouse for transplanting at a later date. Students will be utilizing and fine-tuning their crop plans during this block, which will yield group plans for additional plots of crops such as sweet corn and melons. (3 credits) Prerequisite: SL—A341 or consent of faculty
SL—A343 Pest Scouting and Weed Management (Offered annually)
Students will continue transplanting and direct seeding crops. They will also be exposed to methods of pest scouting and weed management. Daily field surveys will take place with specific guidelines on how to inspect each crop, and cultural weed management strategies will be demonstrated and implemented. Students will also be taught how to keep proper harvest records to comply with the National Organic Program (NOP). The roadside stand will open this month and students will alternate managing the stand. This will include managing inventory numbers, money, and customer interactions. (3 credits)
Prerequisite: SL—A342 or consent of faculty

SL—A344 Harvesting and Succession Planting (Offered annually)
This month will focus heavily on harvest and post-harvest efficiencies, including cleaning and storage. Importance of packing shed efficiency and flow will also be highlighted. Students will be preparing succession plantings and cover crops as spring crops begin to be terminated. Students will also be marketing crops at the farmers market, roadside stand, and the university cafeteria. (3 credits) Prerequisite: SL—A343 or consent of faculty

SL—A345 Cold Season Cropping and Season Extension Methods (Offered annually)
Students will start focusing on planting cold season crops such as spinach, kale, carrots and beets. Students will also be exposed to season extension methods like row covers, low tunnels, high tunnels, greenhouses, cold frames and mulching. (3 credits)
Prerequisite: SL—A344 or consent of faculty

SL—A346 Long-Term Storage Crops, End-of-Season Preparation, and Capstone (Offered annually)
Students will learn how to properly store long-term storage crops such as cabbage, potatoes, winter squash, and pumpkins, through the winter to ensure income during the cold months. They will learn methods for overwintering fields. A capstone is designed to be the culmination of the Regenerative Organic Agriculture field experience for all the students of the Regenerative Organic Agriculture Certificate program. The class consists of faculty-supervised team experiences with projects having practical relevance and economic importance to issues in food and agriculture. Emphasis is placed upon project management, the application of technical skills and technical creativity to specific projects, informal communication skills, formal written report production, and formal oral presentation production and delivery. (3 credits) Prerequisite: SL—A345 or consent of faculty
SL—B101 Sustainability, Buildings, and the Built Environment
The built environment consists of all the things that humans build: buildings and the rural, suburban, and urban context in which they are placed. Buildings, the cities they are placed in, and the transportation systems that connect them are the biggest things that humans build. Designing and building them sustainably is one of the greatest challenges facing humanity. This course gives an overview of issues of sustainability in the built environment and the developing solutions –high performance solar powered buildings, natural building, the ecocity movement, reuse of existing structures, urban agriculture, managing water in the urban landscape, turning wastes into resources. We’ll also explore how we can use the ancient ideas about orientation and placement of buildings and the design of cities from Maharishi Sthapatya Ved in the design of the contemporary sustainable built environment. The goal is to create a built environment that, like the natural environment, is regenerative, giving back more than it takes. Course fee: $65 (4 credits)

SL—B150 How to Build a Vastu Tiny Home (Offered according to demand)
Students will learn all phases of building a tiny home – planning, drawing plans, site work, ordering materials, rough framing, roofing, siding, electrical, plumbing, insulation, finish trim work, finish electrical, and finish plumbing - taking it as far as we can in the allotted time. We will build a 10'x20' Vastu tiny home and learn about the pros and cons of living a small footprint. Course fee: $40. (4 credits)

SL—B240 Maker Course: Learn (Just Enough) to Make (Almost) Anything (Offered every other year)
“The Maker Movement” emphasizes learning-through-doing in a social environment. Maker culture emphasizes entrepreneurship, open-source technology and peer-to-peer development, and this class will introduce you to the world of Makers. You will also learn to use more conventional tools, like woodworking tools, blacksmithing equipment, and welding equipment. Most of the time will be spent in the shop making things. Students will have the chance to work individually or in groups on developing their own prototype of a sustainably produced product. There will be plenty of hands-on shop time, along with brainstorming sessions and critiqués. We will also discuss the ethics of technology and consumer culture, and how the Maker movement might lead us to a world where we control our "stuff," instead of it controlling us. Class will include field trips to the shops and offices of local innovators and makers, guest lectures, and films. Course fee: $65 (4 credits)
SL—B300 Designing for Eutopia: An Ecologically Sustainable Neighborhood for MUM
By putting an ‘E’ in front Utopia, the Greeks transformed Utopia, from meaning, “No place”, to a new meaning, “A good place.” Utopia Park is also destined to undergo a transformation within the all-encompassing framework of consciousness and natural law, from being a trailer-park to a multi-family, ecologically sustainable neighborhood. The new eco-community’s built environment will be designed to incorporate the stability, flexibility, diversity, resilience, and beauty of a natural ecosystem. Particular attention will be paid to the “Seven Central Systems” defining sustainability: water, wastewater, food, energy, building materials and methods of construction, transportation, and health. The course will combine classroom talks, readings, and project-based learning, thus ensuring the integration of both core principles and practical skills. Information will be gathered from the client (MUM), the site reviewed, with needs and objectives defined. Students will learn topographical map-reading, hand-drafting, model building, and other practical project management skills. Vedic and Permaculture principles will be combined to create real plans for an ideal environment on the land. A final proposal will be drafted and presented, including ideas for implementation and funding. Course fee: $50 (8 credits)

SL—E101 Energy and Sustainability: The Energy Basis of Humans and Nature (Offered annually)
This course explores the role energy plays in sustainability and in the development of complexity and order in nature and in the human economy. Anything of economic value comes from nature or from humans, and both require energy. Therefore, energy is critical to the economy. Energy inevitably loses usefulness as it flows through manmade and natural systems. Sustainability is about regeneration and renewal of opportunity for future generations. Therefore, renewable sources of energy are essential for sustainability. Students will learn basic energy concepts and their application to sustainability and renewable energy systems. The course will include lecture, readings, films, guest speakers, field trips, and hands-on work. Course fee: $65 (4 credits)

SL—E203 Energy Efficiency in Thermal Utilities and Systems
This course focuses on heating fundamentals and energy efficient heating systems for residential and small-scale industry. Topics include: 1) Thermal acumen - heat pump driven home boilers, types of combustion boilers, analysis of losses, boiler efficiency calculations; 2) Sustainable insulation - insulation-types and application, economic thickness of insulation, heat savings, and application criteria; 3) Micro-turbine - definition, needs, applications, advantages of cogeneration, its classifications, saving potentials. Heat balance, micro-turbine efficiency, waste heat recovery; and 4) Energy efficient construction, which combines building enclosure efficiency and passive solar
strategies in a system for designing and building cost effective, comfortable, energy efficient buildings. Course fee: $65 (4 credits) Prerequisite: SL—E101

SL—E204 Solar Energy Science
This course explains the science of photovoltaics (PV). Theory and laboratory skills are emphasized. Topics include: 1) Math and physics that are suitable and understandable to those without an engineering degree but necessary for understanding solar PV; 2) Solar energy fundamentals including the optics of solar energy collection, solar cell physics, various cell semi-conductor manufacturing techniques, and PV module fundamentals. Course fee: $65 (4 credits) Prerequisite: SL—E101 or consent of instructor

SL—E205 Solar Energy Applications
This course focuses on three types of solar energy applications: conventional social thermal, solar thermal ported heat pump CHP applications, and solar PV. Theory and laboratory skills are emphasized. Topics include Safety fundamentals, PV module fundamentals, system sizing principles, system mechanical design, system electrical design, system components; maintenance and troubleshooting, performance analysis. Course fee: $50 (4 credits) Prerequisite: SL—E101 or SL—E206

SL—E206 Sustainable Energy Lab: Electrical Fundamentals for Renewable Energy
In this course, students learn electricity fundamentals through doing. Instructions and guidance will be provided on the spot in the lab. It is an introduction course to the essential knowledge of electricity and its applications related to renewable energy. Students will be exposed extensively and intensively to the nuts and bolts of electrical world. It includes 2 sections:
1. Fundamental concepts of electricity: Basic necessary mathematics, physics principles, safety, network analysis of DC circuits, electrical conductors and wiring techniques, as well as batteries.
2. Conversion techniques: Electro-magnetism and magnetic circuits, introduction to AC circuits, inductance, capacitance, inductive and capacitive reactance, DC generators and motors, synchronous and induction machines. Course fee: $65 (4 credits) Prerequisite: SL—E101

SL—E207 Micro-Grid
This course helps students to better understand the use and integration of renewable energy sources in eco-communities. Topics include: 1) Localized group of electricity sources and loads, sizing cables, and selecting over-current devices to supply power to the users from sustainable sources such as a solar array; 2) The EV as a movable micro-grid; an expose of micro-grid principles; and 3) Common features of energy storage
mechanisms between EV and micro-grid/off-grid systems (à la Amory Lovins-RMI).
Course fee: $50 (4 credits) Prerequisite: SL—E101 or consent of the instructor

SL—E210 Fundamentals of Wind Turbines
This course discusses the application of fundamental principles of thermodynamics, fluid mechanics, and mechanical systems and how they are related to wind turbine engineering. The course will also cover the fundamentals of horizontal-axis wind turbines, wind energy conversion to useful work; wind turbine aerodynamics, performance, design of components; overview of wind resource and historical development of wind turbines; introduction to wind turbine installation and wind farm operation. Students will visit a wind farm and will discuss how the concepts discussed in class are used in different regions around the world. The students will also discuss how policy factors drives wind turbine installations. Course fee: $50 (4 credits)

SL—E305 Energy Systems for Electric Vehicle Technology
This course explains the fundamentals of energy storage, conversion, inversion, and distribution by exploring EV energy systems. Topics include: 1) Fundamentals of energy storage and conversion such as electrochemistry, thermodynamics, and regeneration through braking; and 2) Conversion techniques: Electro-magnetism and magnetic circuits, introduction to AC circuits, inductance, capacitance, inductive and capacitive reactance, DC generators and motors, synchronous and induction machines. The course project involves practice in electrical storage dynamics through examination of an actual EV drive train, to understand its functionality, safety standards, and the diagnosis of problems. Course fee: $50 (4 credits) Prerequisite: SL—E101 or consent of instructor

SL—F250 Systems Thinking
Applied Systems Thinking is a course that provides participants the opportunity to apply Dynamic Systems Thinking approaches, developed at MIT by Donella and Dennis Meadow and Jay Forrester, to look at the impacts of exponential growth on our planet. Their concepts outlined in the famous "Limits to Growth" became the basis for computer systems modeling, ranging from manufacturing to climate change. This course will primarily focus on agriculture and food production, but students will have the opportunity to apply systems approaches to planning and problem solving with virtually any system that interests them. Students will engage in film viewing, discussions, hands-on activities, field trips, group projects and other exciting and fun excursions into the Systems Thinking world. Course fee: $35 (4 credits)
SL—G100 CCTS: Understanding and Advocating for Sustainability — The Individual as the Unit of Sustainability
Passing along the awareness that the sustainability movement is the future of the human project is the key to any possible future. Therefore, this introductory course is designed to give students the experience of diving right in to the discipline of Sustainable Living. Students will read from a variety of books and articles and engage in creative exercises that will allow them to discern key concepts in sustainability. Students will have the opportunity to open to the field of all possibilities by going through the process of evaluating their own beliefs alongside the belief systems of a variety of key players in the field of sustainability. Also, students will learn vital skills of assessing and listening that will help them refine their communication of key concepts, values, and beliefs in an intelligent and effective manner. At the end of this course, students should be able to say what they believe, express why, and do so in a way that invites participation rather than confrontation. (4 credits)

SL—G101 Permaculture Designers Course (PDC) (Offered annually)
Permaculture Design is a system for rethinking and redesigning of every aspect of human endeavor in terms of sustainability. As such, it is a cross-disciplinary design system that involves architecture and building, agriculture, energy, urban and city design, economics and livelihoods, water, and the aesthetic integration of all of these in human settlements. On successful completion of the course, students will receive an internationally recognized certificate. David Holmgren and Bill Mollison developed the basic principles of permaculture design by integrating the observation of natural systems, traditional indigenous wisdom, and modern scientific and technological knowledge. Through lecture, discussion, observation, field trips, hands-on learning, videos, slide shows, and handouts, students gain the practical skills and theoretical knowledge to design and implement sustainable systems in harmony with the natural world so participants can understand and apply these methods and skills to their home property and local community. Participants will learn principles and methodologies of sustainable design, how to read the landscape, strategies and tools for urban and rural homesteads, food forests and orchards, greenhouse operation, natural building, and alternative energy techniques. This is a foundation course for the entire Sustainable Living program. Course and field trip fees: $100 (4 credits)

SL-G109 Art & Science of Apiculture: Organic Honey Production
The emphasis is on organic honey production; however, the course will also consider the following topics: Definition of apiculture; history of beekeeping; beekeeping and sustainable livelihoods; honeybee species and their geographical locations; apiary selection; bee biology, behavior, and activities; basic management rules and seasonal
management techniques; beekeeping tools and equipment; production, processing, and utilization of organic honey and other honeybee products; honey types; apitherapy; honeybee pests, predators, and control; plant species visited by honeybees; pollination; worldwide honey markets and international standard. The course will include field and laboratory studies. Course fee: $40 (4 credits)

SL—G130 Materials, Tools, and Methods for Sustainability (Offered according to demand)
This course will provide students with a comprehensive background in the nature and properties of our planet’s material resources and how they may be used in sustainable and ecologically friendly ways. Topics include: identifying different types of wood and knowing the best types for various purposes (e.g., why hickory is best for tool handles and cedar for shingles), understanding the differences between different types of metals and knowing when and where to use them (e.g., why it might be a bad idea to use brass next to aluminum), becoming expert in the use of tools, measuring instruments, methods of fastening and joining things, planning projects, and discussing the role of fine craftsmanship and consciousness-imbibed goods in the coming age. Lab fee: $65 (4 credits)

SL—G195 Living Systems: Self-Interacting Dynamics of Biological Functions and Evolution - from the Micro-Scale to the Macrocosm (Offered every other year)
Fundamental to all life are basic functions of self-organization, maintenance of continuity between generations, and adjustment to changing circumstances through biological evolution. This course covers aspects of biochemistry, cell biology, genetics, and evolution, with emphasis on knowledge essential to understanding how organisms use resources, grow, and influence their environments. Course Fee: $65 (4 credits)

SL—G201 CCTS Ecology: Observe How Living Organisms Maintain Perfect Orderliness in Their Physical Environment (Offered annually)
Ecology is often defined as the study of relationships between organisms and their living and non-living environment. The term has become more generalized in recent years to refer to a set of interacting entities in an environment. These entities could be thoughts, technologies, beliefs, organisms, pollutants, or mountains and the environment could be an individual mind, community, society, organism, planet, culture, or meadow. This more generalized notion of ecology opens us up to understand ecology as something that exists in the universe rather than just a lens or set of questions through which we gain knowledge of the world. In this course students will learn about fundamental ecological concepts, including niche, habitat, community, ecosystem, biomes, biosphere; population ecology; species interactions; energy flows; nutrient cycling; and succession. This is a writing intensive course. Lab fee: $65 This is a writing intensive course. (4 credits)
SL—G211 Permaculture in Practice: Nourishing Individual and Collective Life While Remaining Rooted in Wholeness
This course is designed as a sequel to the Permaculture Designers Course (PDC). Students will deepen their understanding of permaculture ethics and principles through fieldwork. They will expand upon the theory and design process explored in the PDC while developing the skills and using the technology needed to put theory into practice. The focus of the course will be on creating and maintaining a multi-function forest garden together with other aspects of human-scale development, including natural building, renewable energy, and green transportation. Students will engage with the MUM Makerspace and Regenerative Organic Agriculture Center, as well as visit local permaculture-related sites. Topics include soil preparation, mushroom production, seed propagation, perennial transplanting, and building garden support structures from natural materials. Course fee: $65. (4 credits) Prerequisite: SL-G101 Permaculture Designers or permission of instructor.

SL—G215 Extraction and Utilization of Essential Oils
This course will offer useful knowledge on commonly available aromatic herbs. It will cover the introduction, identification, and uses of herbs – including basil, sage, rosemary, thyme, oregano, mints, chives, lavender, geranium, chamomile, and ginger. Students will explore different methods of extraction of essential oils, including distillation, enfleurage, maceration, solvent extraction, and large-scale extraction methods. The course will include demonstration of and hands-on-training in essential oil extraction through steam distillation. Students will also learn about the usage of essential oils for different ailments and their formulations in cosmetics, medicines, and aromatherapy. Course fee: $50 (4 credits)

SL—G241 Wild Food: Harvesting, Production, & Cooking
Explore the natural areas near Fairfield and experience how acquiring food from your environment fosters community and sense of place. Develop skills related to identifying, harvesting, processing, cooking, and preserving plants and mushrooms (rain dependent). Understand how the health of the land is intrinsically tied to the health of the people and how Iowa’s natural history plays an important role in preserving and rebuilding this connection. This course uses readings, class discussions, field excursions, and labs to explore themes related to foraging and Iowa’s natural history. A typical class period will begin with discussion based on assigned reading, both student and instructor led, and finish with either field excursions or food processing. Course fee: $65 (4 credits)
SL—G251 The Power of Social Media Marketing: Communication in the Global Village
In this course, students will learn to harness the power of media marketing in the Internet age by using social sites — such as YouTube, Google+, Facebook, Twitter, Instagram, Pinterest, and LinkedIn — for their current, future or imagined businesses. Students will learn key marketing and branding concepts, and gain hands-on experience with visual marketing and modern content marketing. Topics of exploration include: attraction-based marketing vs. push-based marketing; organizing followers and friends; the visual marketing creation process using, for example, large images and infographics; ecommerce tools for each social site; developing a social media marketing strategy. (4 credits) Prerequisite: basic computer skills. (Cross-listed with MC-W251)

SL—G252 CCTS: The Power of the Word: Information and Inspiration for Action and Achievement
In this course, students will be introduced to persuasive communication. Methods of evaluating and responding to arguments will be covered. Students will learn the fundamentals of effective speech, writing and presentation, and examine those fundamentals in the contexts of storytelling, activism, advertising, and business. (4 credits) (Cross-listed with MC-W250)

SL—G280 Ethnobotanical & Chemical Ecological Studies of Temperate & Tropical Forest Food Plants
Ethnobotany, chemical composition, and ecology of forest food plants in different ecological zones in the tropical and temperate regions of the world with specific examples will be discussed. These forest food plants will include plants that are used as food, medicine, and fodder. Their distribution, description, propagation/cultivation techniques, economic importance/utilization potential, and chemical composition will be considered. Field visits, practicals, and laboratory studies are also included. Course fee: $40 (4 credits)

SL—G301 The New Economy in Action
What would an economy fit for the 21st century and beyond look like? How can we foster new economic thinking at our university and the broader community? These are the key questions we will explore together in this course. Within this course we will critique conventional neoclassical economic thinking and its threats to sustainability; explore problems with conventional ideas about economic growth and development; evaluate initiatives in terms of their adherence to new or old economic thinking; and explore the growing number of alternatives in the new economy. Working in teams, you will get the opportunity to apply new economics to real problems at MUM and the broader Fairfield community. Course fee: $65 (4 credits)
**SL—G340 Economics of Sustainability**
Gain a conceptual understanding of economic sustainability and acquire specific knowledge and information needed to apply these concepts in your professional and personal life. A sustainable economy must be capable of meeting the needs of the present without diminishing opportunities for the future. Since all economic value is derived from either nature or society, a sustainable economy must continually renew and regenerate the “natural and human capital” from which it derived its “economic capital.” Sustainable capitalism may seem an oxymoron because today’s neoclassical capitalist economy clearly is not sustainable. However, market economies provide the most efficient means of meeting our individual needs if nature and society are protected from economic exploitation. We have the collective ability and means to work together to provide the social and political restraints and incentives needed to ensure long run ecological and social integrity. Through hands-on experiences both on campus and in the community, students in this course will gain an understanding of how sustainable living creates the ethical and intellectual foundation for sustainable businesses, communities, economies, and societies. Course fee $65 (4 credits)

**SL—G353 Sustainable Watershed Management: Problems and Solutions to Water Quality and Scarcity Worldwide** (Offered according to demand)
Fresh water resources play a key role in any sustainable community and are pivotal to the success of long-term sustainable development. In this course students will learn about the problems plaguing water resources and will acquire the skills to implement appropriate solutions on the scale of the watershed as a whole. Students will learn how to put together integrated watershed management plans by doing on site data collection, evaluating the data collected, and suggesting sustainable water management practices based on their assessment. These practices primarily emulate the natural water cycle and include water conservation, green water infrastructure, and the use of alternatives to fresh water resources such as harvested rainwater and reclaimed wastewater. Lab fee: $65 (4 credits)

**SL—G355 Earth Materials: From the Ground to Sustainable Living**
We extract material and energy resources from the Earth to grow food, make stuff, build megacities, move things around the world, and harness the energy to do it all. Expanding exponentially, this human enterprise is not sustainable, unless it undergoes a new industrial revolution guided by how Earth systems work, by cradle-to-grave principles, and by other expressions of natural law enlivened by using collective consciousness. In lectures, labs, group projects, and individual presentations, students explore the full range of inorganic materials being used today (rocks and minerals, ceramics and glass, metals and alloys, concrete and composites, plastics and silicones, etc.), how and where raw materials are concentrated by Earth systems, the history of their use by humans, global
systems of extraction, processing, trade, and recycling, and especially the creative forefront of reinventing — the emergence of sustainable solutions driving the green revolution. Lab fee: $40. (4 credits)

SL—G370 Environmental Law: Connecting National Law with Natural Law to Protect the Environment from Global Warming, Pollution, and Resource Depletion while Creating Abundance for All Nations (Offered according to demand) From local regulations about water quality to global initiatives like the Kyoto Accord, the law is an important tool for regulating our use of the environment. During this course, students will become familiar with international treaties and protocols on global warming, pollution, and endangered species. The class will also study the key features of American environmental law including the Clean Air and Water Act, the Environmental Protection Act, and other current policies and regulations. Perhaps most importantly, students will understand the lawmaking process as a way to use the legal system to bring about positive change and build sustainable communities. (4 credits)

SL—G375 Living Laboratory of Earth Systems: Discovering Connections Among the Spheres (Offered every other year) This eight-week course travels north to explore the Great Lakes, the heart of North America. In the North Channel of Lake Huron, we will live on and boat to islands, microcosms that provide a glimpse of the whole Earth— the interaction of the geosphere, atmosphere, hydrosphere, and biosphere. This holistic, place-based approach includes hands-on projects to explore the full range of natural sciences, to conduct original research, and develop the personal skill set essential for being in tune with the natural laws of any place— the essence of sustainable living. The boundary zone between the Michigan Basin (south) and Canadian Shield (north) provides an exceptional variety of landscapes, rich with life, perfect for seeing the relationship between habitats, soils, ecology, coastal dynamics, and the underlying geologic terrain. Additional fees apply. (4 credits) Prerequisites: permission of the instructor, international students need a visa for Canada.

SL—G395 Team Projects (Offered according to demand) Teamwork, intelligently directed to achieve the best possible outcomes, is essential to any sustainability initiative. This course asks teams of students to take on a local challenge and propose a plan, or actually engage in work, to address this challenge. (4 credits) Prerequisite: permission of the department

SL—G398 Internships (Offered according to need) Students will have the opportunity to apply their skills and knowledge related to sustainability in real-world situations while earning academic credit. Up to 16 credits of
internship can be applied towards the degree. Four credits are required. (4 credits)

Prerequisites: consent of the Sustainable Living department and Academic Standards Committee

SL—G399 Directed Study (Offered according to need)
(variable credits) Prerequisites: consent of the department and Academic Standards Committee

SL—G400 Sustainable Living Project Prep: Planning Your Personal Contribution to Life in Accord with Natural Law (Offered according to need)
This course is devoted to preparing students for the Senior Sustainable Living Project (SL—G401). Students will meet with faculty to research, discuss, and plan the project to ensure that it will unfold as smoothly as possible. (4 credits) Prerequisites: good academic standing and consent of the instructor

SL—G401 Senior Sustainable Living Project: Applying Natural Law-Based Knowledge to Real-World Enterprises to Test Principles of Sustainable Technologies (Offered according to need)
In this final course, students apply what they have learned to a special senior project. Under the guidance of faculty, students will design and implement some aspect of a sustainable community, using opportunities in the city of Fairfield, Maharishi Vedic City, Abundance Ecovillage (just north of Fairfield), or the Maharishi University of Management campus itself. The project may be an individual effort, or students may work together in small teams to produce a fitting tribute to the concept of Sustainable Living, one that will prepare them to take on real projects wherever they may choose to work. (4 credits — may be repeated for credit, subject to satisfactory progress in the previous course and a clear plan for the progression of learning in the subsequent course) Prerequisite: SL—G101

SL—G403 Teaching Practicum in Sustainability: How to Apply Natural Law to Teaching by Assisting with the Instruction of Selected Courses in the Sustainable Living Program (Offered according to demand)
This course is designed to allow advanced undergraduate students of good academic standing the opportunity to assist an instructor in teaching a course in sustainability. It is especially recommended for those students who plan to go into a teaching career or who expect to help finance graduate work through teaching assistantships. In most cases it will involve helping the instructor with course planning and preparation, small discussion groups, homework and quiz grading. Some lecture and lab preparation and presentation may also be included as a teaching experience. (4 credits)
SL—P202 Policy for Food Security
Food security is possibly the most critical sustainability issue facing humanity in the short to medium term. As the world’s population grows and developing countries move up the food chain, demand for food is growing fast. At the same time government policies for food production, distribution and retailing tend to favor the unsustainable practices of agribusiness. This course studies the way forward to create state, national and international policies that can deliver plentiful, nourishing, non-toxic food for the developing world, whilst also enhancing bio-diversity. We will also consider policy options to detoxify American food which offers its own threats to food security in terms of human sickness, unethical treatment of animals and environmental degradation. The course will include a significant element of individual research work and some presentations in class. (4 credits) Prerequisites: SL—P250 and consent of the instructor

SL—P250 Global Sustainability (Offered annually)
How do we set about structuring a sustainable living environment that can be maintained on a global scale for all future generations? This course is about the big picture that drives the global sustainable living agenda. It provides a broad perspective on the problems we face as a species. We study what can and should be done to transform the current trends effecting population growth, biodiversity, climate, energy supply and consumption, food and water security and other threats to sustainability. We explore the shift in mind set or consciousness that is needed to take us from regarding the environment and an expendable resource to treasuring it as an entity with which we must live in harmony. Lab fee: $25 (4 credits)

SL—P301 Becoming a Change Agent for Sustainability
The dilemmas of the 21st century impact every aspect of life—on personal, local, national, and global scales. The well-being of our selves and our communities are intricately tied to the patterns and systems which we are part of. Along with the destructive dilemmas of peril, there are also constructive patterns of possibilities that have never before been available on a planetary scale. The deep sustainability framework asserts that efficiency and substitution are not sufficient to create a sustainable world; rather, sustainable change demands an evolution of paradigms. In this course, we, as a learning community study, apply, and move towards increasing literacy in models that describe underlying organizing principles of seemingly diverse and unrelated life experiences. These models are maps, and while the map is not the territory, it can inform decision-making to reach a destination. These models are also lenses, which when we look at the world through them, we see the world in a specific way that produces new insights and creative potentials. Course fee: $60 (4 credits)
SL—P404 How to Create Social Change
We have the solutions to create a sustainable future, but it isn’t happening nearly fast enough. This course studies what works to achieve big social change to make a sustainable future happen. This is a ‘brains-on,’ practical course. The class will meet with and interview an exciting range of highly successful change-makers in industry, campaign groups, and government. Some theory of social change will also be reviewed. Working as a team, students will develop their own understanding of social change and create a definitive report on the topic. We will also look at the many opportunities for graduates to build meaningful careers in this field. Lab fee: $25 (4 credits)
INDIVIDUALIZED MAJOR

FACULTY

• Paula Armstrong, MA, Assistant Professor of Education, Director of the Individualized Major Program, Director of Academic Support

INTRODUCTION

In the event that no single major alone satisfies a student’s interests and career goals, the student may propose an Individualized Major that meets all of the standards of a college major but is composed of courses from two or more majors organized around a theme of the student’s choosing.

GUIDELINES

Students interested in an Individualized Major should contact the Program Director to obtain detailed guidelines. Students then declare their major to be ‘Individualized’ by the end of their third semester at the University. Students transferring in 70 or more credits can start working on their degree plan on arrival at MUM. The final plan for each student’s Individualized Major must be approved by the University’s Individualized Major Committee. After approval, the student’s degree plan is recorded in the Registrar’s database.

Coherence

Students may propose an Individualized Major on any subject matter that permits coherent, in-depth study using resources available through the University, and that does not duplicate an existing program. The degree plan must be organized around a central theme and be substantial enough in content to meet the aims of college study. It should also have a theme from the Science and Technology of Consciousness, connecting the interdisciplinary theme to life as a whole.

Range of Knowledge

The degree plan should provide for a) a foundation of skills, concepts, and methods appropriate to the proposed area of study, b) study of leading thinkers in the field, c) a planned opportunity to apply one’s knowledge and skills to real world problems and issues or to complete a substantial research project, and d) knowledge of the Science and Technology of Consciousness relevant to the theme. Learning outcomes must be clearly identified.
Faculty Supervision

Two subject-area faculty members from different departments read the degree plan and agree to advise the student throughout its implementation. One of the faculty members should be expert in the concentration. If there is no one on University faculty with sufficient expertise in the proposed major, students together with the Program Director will need to find someone with recognized expertise in this field to be one of their faculty advisors.

Senior Project

The major includes an integrative project to be completed during the Senior Project course. The project is a sustained, focused exploration of a selected topic, using methods appropriate to the subject, and permitting reflection on and creative use of material encountered earlier in students’ studies. The project may take any form, including, for example, laboratory, field, or other empirical research; a substantial essay or research paper; a performance, panel, or public presentation; a community program; a web site; or some other form that the student chooses. Projects in all formats must include a section relating the project to the Science of Consciousness. All projects must end with a self-evaluation paper and a seven minute presentation to the Individualized Major department.

Graduation Requirements for an Individualized Major

To graduate with an Individualized Major, students must successfully complete all requirements for the bachelor’s degree. Please refer to “Degree Requirements” in the “Academic Policies” section of this catalog. The requirements for the major are 48 credits of coursework as follows:

- At least 16 credits from one area, and preferably one major.
- At least 24 credits at the 300 level or above.
- IM 400 Individualized Major Senior Project, or the senior project from the department of one’s concentration. (4-12 credits).
- Up to 24 transfer credits may apply to the major.
- Up to 16 credits of internships may apply to the major.

The Individualized Major proposal must be approved by the semester in which a student has 90 course credits. After that time students will qualify for a Bachelor of Applied Arts and Sciences, but not a BA or BS with an Individualized Major. Transfer students with 90 credits must have their proposal approved by the end of their first semester of classes.
COURSES

IM 397 Senior Project Preparation
During this course students evaluate different options for their senior project. They may do preliminary research and writing on their subject, and receive mentoring and feedback on their proposal. Topics include: how to generate ideas, prewriting strategies, research resources and strategies. (2–4 credits) Prerequisite: Approval of the instructor

IM 398 Internship
This course offers practical work experience related to a student's individualized major. Students propose an internship with a company or organization and work with an on-site supervisor. They check in with a faculty advisor at least once a week and maintain a journal, blog or online portfolio that records their growth in understanding and experience. At the end of the internship they submit a paper describing the impact of the internship on their career path. (4 credits)

IM 400 Individualized Major Senior Project
This self-designed capstone course, normally two blocks, integrates the knowledge gained during the student's individualized major. Students will design or research an innovative product or program related to their individualized major, and present the results of their project to other students and faculty. (4–8 credits) Prerequisite: Approval of faculty
ROTATING UNIVERSITY

SPECIAL FEATURES

The Rotating University program offers courses of study abroad, usually of four to six weeks duration. The purpose of these courses is to develop “international citizens,” individuals capable of acting spontaneously in accord with the laws of nature in any culture. Most courses focus on academic topics relevant to the culture. Some include the study of local language and geography. In every course, students learn to manage their daily study and travel within the laws and customs of a foreign country and culture.

Past courses have ranged from biking and hiking through New Zealand and Australia, adventure sport in southeast Asia, visiting famous art museums and historic places of Italy, cruising the Greek islands, to exploring the rich cultural and spiritual traditions of India, the Land of the Veda.

More recently, courses have included food culture in Italy, sacred sites of India, permaculture and soil science in Costa Rica, sustainability in Bhutan, community development in Columbia, sustainability and leadership in Hawaii, and sustainability in Columbia.

See the following course in their respective sections of the catalog.

Department of Applied Arts and Sciences
HUM 232 Discovering Other Countries: The Land and Its People
ESS 325 Rotating University: Leadership in Adventure Sport

Department of Maharishi Vedic Science
MVS 485 Rotating University Abroad
NON-DEGREE GUEST STUDENTS

On-Campus Guest Student Policies

Non-degree-seeking students who wish to take an on-campus course normally offered only to DAY or Evening/Weekend program students may do so by applying online at www.mum.edu/apply. The MUM Admissions Office will process your application.

Note: Guest Students are expected to participate fully in the class including taking the final exam. If the student does not fulfill this requirement, a grade of “NC” will be given for the course and the NC will be included in the student’s GPA.

Three other policies guide courses taken by Guest Students:

1) When taking credit-bearing courses as a Guest Student, it is recommended that students take STC 108 or FOR 500 first. However, students may take up to eight credits of other course work before they must take one of these courses. (The first course our degree-seeking students take when they enter the University is the Science and Technology of Consciousness course (STC 108) for undergraduates or the Science of Creative Intelligence course (FOR 500) for graduate students.)

2) A maximum of eight credits taken as a Guest Student may later be applied to a degree program.

3) After completing eight credits, Guest Students are required to register as a degree-seeking student and declare a major. New degree-seeking students can only enroll at the very beginning of a semester.

For course offering details, please refer to the various academic departments’ sections in this catalog or visit our website. To view our course schedule, please go to www.mum.edu/classes.

For details concerning costs, withdrawal and refund policies, please refer to the ACADEMIC POLICIES and FINANCIAL AID sections located later in this catalog.

Withdrawal and Refund Policy for On-Campus Credit Courses

1) To withdraw from the course before it has started, notify the Enrollment Center.
2) To withdraw after a course has started, notify the course instructor and the Enrollment Center within three days of the last day of class attended. Please give complete information including the reason for withdrawal and the last date of class attendance.

3) It is your responsibility to inform your instructor of your intention to withdraw within three days of your last day of class attendance. If you are absent longer than three days, the instructor may assign a grade of NC.

Follow these procedures to apply for a refund:

1) Be sure to complete the above instructions. Refunds are based on the last date of class attendance.

2) File a request for refund at the time of withdrawal from the course at the Enrollment Center. Refunds are given only to those who officially withdraw from a course within three days of the last date of class attendance.

3) A student who withdraws after the first day of the course will be charged a minimum of 50% of the course fee. After 25% of the course has been taken, there is no refund.
ONLINE EDUCATION

The Distance Education Department at MUM coordinates a portfolio of online degree programs, credit courses, and non-credit courses that cater to the needs of busy learners who have responsibilities that do not permit traditional campus attendance. The portfolio continues to expand every semester. For more information, see mum.edu/online.

If you are a currently enrolled, full-time MUM student wishing to take an MUM online course for credit, please see the MUM Registrar. If you are not a currently enrolled MUM student and wish to apply for an online for-credit course, please complete the application at this URL: https://www.mum.edu/mum-online/course-registration/mum-online-for-credit-course-application.

Please note: A maximum of eight credits of courses taken as a non-degree student may later be applied to a degree program.

Transcendental Meditation technique
Students enrolled in online education, like all students at Maharishi University of Management, practice the Transcendental Meditation technique. Those who don’t already practice the technique must learn it from an authorized TM Teacher. To find a TM Teacher, please visit www.tm.org. One way to learn the TM Technique in the U.S. is to enroll in ED 101 and ED 102 (for undergraduate courses) or ED 501 and ED 502 (for graduate courses). An application to receive MUM academic credit for learning the TM technique is available at https://students.mum.edu/tm-course-students. Instruction in the TM Technique is available in many locations worldwide, during which the students learn the technique and its correct practice.

Online For-Credit Attendance and Participation Policies
Online students will be automatically withdrawn from a for-credit course if the student does not log on to the online course by Day 7 (11:59 pm Central time) after the course-begin date that is published in the schedule. During the length of the course, a student must participate according to the course syllabus on a weekly basis. Students who fail to participate within a 14-day period will be automatically withdrawn.

Students who fail to maintain active participation in an online course as defined in the course syllabus will be withdrawn from the course, unless their instructor has given prior approval via an Early Access and Non-Participation Agreement and instructor has
notified the MUM Registrar and de@mum.edu. For more information, see “Early Access and Non-Participation Agreement” in the “Academic Policies” section in this catalog.

Student “attendance” in online courses will be defined as active participation in the course as described in the course syllabus. Online courses have weekly mechanisms for student participation, which can be documented by any or all of the following methods: submission/completion of assignments, posting to discussion forums, and quizzes. Mere communication with the instructor does not constitute “participation” in a course.

**Late Work Policy for Students in Distance Education Programs**

Students may not hand in work after the last class session of a course unless they have made prior arrangements with the course instructor. All students are given a grade at the end of the course based on 1) completed work, 2) in-class performance, and 3) work not yet completed. A zero (0) for the uncompleted work is figured into that grade.

Students who are not able to complete all major assignments of a course, typically in the final week, *due to illness, family emergency, or other compelling circumstances beyond their control*, may petition the professor in writing before the end of the course to be granted more time. If the petition for additional time is granted by the professor, the professor will form a contract with the student, specifying the assignments that need to be completed and their due date(s). If the required work is submitted as specified in the contract before the professor turns in grades (generally 10 days after the end of the course), the student will receive the grade earned through in-course work and work done during the extended time.

In the event the student is sick or otherwise incapacitated during the time the professor is completing the grading process, the student may petition the professor for additional time — up to 42 days from the final day of the course — to submit late work. The faculty may also request documentation of the illness or other emergency.

Students who do not meet the Online For-Credit Attendance and Participation Policy stipulated below are likely to receive a No Credit for the course and be ineligible to apply for this petition. This petition cannot be used when the student would like to re-do work for a better grade. The petition is only to cover work that cannot be submitted on time by the end of the course due to illness, family emergency, or other compelling circumstances.

If the required work is submitted after the end of the grading period, but within 42 days of the end of the class, in keeping with the contract, the student’s grade will be amended by the professor from what it had been at the end of the grading period to what was
earned by the end of the time agreed upon in the contract. After the 42 days from the end of the course, no grade can be altered in the Registrar’s database, except through written appeal to the Dean of Assessment and Undergraduate Studies.

**Dropping a Course**

A student may drop a course for any reason by 4 p.m. of the second day of a course by informing the Enrollment Center. If the above criterion is met, the course is removed from the student’s academic record. The Course Drop or Withdrawal Form can be obtained from the Enrollment Center or downloaded online at students.mum.edu/appeals-petitions-proposals-and-other-forms-you-may-need.

**Online Course Withdrawal Policies**

Once a course has begun, and after the deadline for changing or dropping a course, a student may withdraw from a course for any reason as long as a request form is submitted to the Enrollment Center within 25% of the calendar time of an online course. The request form must be signed by the professor of the course the student is withdrawing from as well as the student’s academic advisor.

Students may withdraw from only one course per semester. If a student wishes to withdraw from another course in the same semester they would have to petition Academic Standards Committee (ASC) for an exception. If the petition is denied, and if the student stops attending the course, the student will receive an NC (no credit) grade.

A student may request a WH (health-related withdrawal) grade from their professor for a withdrawal due to illness or family emergency at any time during a course. The professor will require the student to provide documentation (nurse or doctor’s note, etc.) to verify the reason for the withdrawal. The request for a WH must be made within two weeks after the last day in which the student was present in class or participated in class, and the student must have been otherwise passing the course at the time of the withdrawal.

The policy on course withdrawal and refunds depends on whether the course is for-credit or non-credit and, if for-credit, whether or not the student is in a degree program.

**Online Degree-Seeking For-Credit Course Withdrawal and Refund Policy**

Students needing to withdraw from an online credit course must inform their instructor and the Online and Education department at de@mum.edu of their intent to withdraw.

Refunds for Online Degree-Seeking For-Credit Course Withdrawals are calculated on the basis of the percentage attended in the semester. For details, please visit
Online Non-Degree For-Credit Withdrawal and Refund Policy
Students who have not applied to a degree program and are taking one course at a time will be charged a minimum 50% of the course fee, and after 25% of the course, there is no refund. If a student wishes to withdraw from a course after it has started, the student must email a request to de@mum.edu and registrar@mum.edu within seven days of the date of stopping participating.

Online Non-Credit Course Withdrawal and Refund Policy
1. To receive a full (100%) refund you must email your request to de@mum.edu within 3 days of your registration date. (Registration date is the day you pay the registration fee for your online noncredit course.)
2. You are eligible for a 50% refund 7 days after your registration date upon request to de@mum.edu. No refunds thereafter. (Registration date is the day you pay the registration fee for your online non-credit course.)

Readmission of Degree-Seeking Students
Online students who have not been enrolled for two semesters or longer must reapply and be accepted by the Office of Admissions before continuing their online study for a degree.
ACADEMIC POLICIES

GRADUATION POLICIES

The University faculty determines whether students are qualified to graduate. Qualifications are based on 1) satisfactory completion of all academic requirements as described in the degree or certificate requirements listed below, and 2) the specific requirements for the student’s major or program (listed under “Academic Programs”).

Within three days of graduation, students’ records must be complete with the Registrar and indicate the following:

• all academic requirements for their degree program have been satisfied, final grades are on file, or a confirmation by faculty of a passing grade has been received,
• all fees and charges incurred have been paid, all borrowed materials returned, an “Application for Graduation” was submitted at least 60 days prior to graduation and graduation fees paid,
• all undergraduate assessments administered by the Office of Evaluation have been completed, and
• an “Exit Interview” with the Financial Aid Office has been completed if the student received federal student loans.

Students whose academic records are not complete within three days of the graduation ceremony will not receive their degrees with that graduating class. Degrees are awarded twice a year, at the end of each semester. One graduation ceremony is held each year, at the end of the spring semester.

Graduation requirements, including major and minor requirements, are determined by the requirements stated in the Catalog of the year the student begins studying at the University, though students may elect (by formal request to the Graduation Director) to graduate under the requirements published in later catalogs. Please see the Graduation Director in the Enrollment Center if you have any questions about graduation requirements.

BACHELOR’S DEGREE REQUIREMENTS

Credits Required
A minimum of 128 credits (semester hours) is required for students to graduate with a bachelor’s degree. This may include up to 90 transfer credits, up to 16 credits in Development of Consciousness courses, and up to 16 hours of directed study and internship credit. Within these credits, students must fulfill the following courses and requirements:
GENERAL EDUCATION REQUIREMENTS

Note: Requirements may vary for students pursuing their second bachelor’s degree. For transfer-in and re-admit students, please read the information in the GENERAL POLICIES section as well as what is outlined below.

Required course first semester:
MVS 100 Instruction in the Transcendental Meditation technique (1 credit) (This course is waived for those who have learned the TM technique before coming to the University.)

During the First Two Semesters:
STC 108 Science and Technology of Consciousness (6 credits) (Note: This first course is a prerequisite for all other courses taken at the University)
CCTS Course (4 credits)
This is a critical and creative thinking seminar that is recommended to be taken soon after STC 108. Most undergraduate majors offer one of these CCTS courses, which may vary from year to year. For more information please refer to the Critical and Creative Thinking Seminars section listed under ACADEMIC PROGRAMS in the General Education section.
WTG 191 College Composition 1 (4 credits) (May be waived based on the results of a diagnostic assessment or transfer credit.)
WTG 192 College Composition 2 (4 credits) (Students may petition to waive based on transfer credits.)
PH 101 Physiology Is Consciousness (4 credits) Prerequisite: WTG 192
FOR 103 Health-Related Fitness (2 credits) (Recommended taken at the beginning of second semester; not repeatable)

Before Graduation:
FOR 431 Higher States of Consciousness (2 credits) or MVS 202 Self-realization, Freedom, and Fulfillment (4 credits)
PHYS 310 Foundations of Physics and Consciousness (4 credits) (Recommended taken after the first year)

Mathematics (4 credits)
Any mathematics course numbered MATH 153 or higher will fulfill the requirement. For many other ways of satisfying this requirement, see Math Requirements and Placement Policies below in the Placement Tests subsection of this Academic Policies section.

MAJOR REQUIREMENTS

Completion of requirements for a major field of study, listed under Academic Programs. (A maximum of 50% of the credits required for a major may be transferred.)
Undergraduate students may declare a major at any time, but in order to continue their registration, students must declare a major after taking 54 credits (generally three semesters) or, for transfer students entering with 36 or more credits, by the end of their first semester at MUM. Students declare their major by notifying either the Graduation Director or the Director of Academic Advising in the Enrollment Center.

**Special Rules for the BS in Computer Science and the CS Track of the BS in Mathematics.** Students must attain a specific GPA in the CS courses CS 201, CS 203, and CS 221 in order to be accepted into the BS CS (GPA 3.0) or the CS Track of the BS MATH (GPA 2.5), which may take longer than these deadlines. See the Computer Science Department and Mathematics Department sections of this catalog for details.

**Plus Forest Academies**

On-campus students enroll in a two-week Forest Block at the beginning of each semester that they are enrolled for at least three 4-week blocks.

- Students in 1-year on-campus programs are required to take 1 Forest Academy course after fulfilling the *Science and Technology of Consciousness* requirement.
- Students in 1 ½-year or longer on-campus programs are allowed to miss one Forest Academy over this time. If more than one is missed, a makeup is required.

**Grade Point Average (GPA)**

Cumulative GPA of 2.0 or higher. Undergraduate students whose average drops below 2.0 are placed on Academic Warning status and have one more semester to bring their average back to the minimum 2.0. At the end of the second semester, if the average is not at the required level, students will be allowed to petition for a probationary semester. Probation is not automatically granted. If the student does not petition, or the student’s petition for a probationary semester is denied, the student will be asked to leave the University, with return conditions determined by the program faculty on a case-by-case basis. Some departments also have additional GPA requirements.

Please see the Monitoring Student Progress section of this Catalog for more information.

**Recreation**

Completion of Forest Academy course FOR 103 Health-Related Fitness.

Undergraduate students are strongly encouraged to participate in four hours of dynamic physical activity each week. Free fitness assessments are available to all students each semester.
General University Assessments

These assessments are administered by the Evaluation Department as part of the University’s evaluation of its academic programs. They have no bearing on students’ standing, but every student is required to participate upon entry to the University and again prior to graduation.

PLACEMENT TESTS

Placement tests are administered at the beginning of each semester to determine which courses students need to satisfy their Composition and Mathematics requirements.

Composition Placement Policies

All students are expected to reach a beginning college level of writing ability before they enter their major. To achieve this level, students are expected to take one or two composition courses, depending on their entering writing ability: Composition 1 (WTG 191) and Composition 2 (WTG 192). Students may waive Composition 1 on the basis of a placement test given shortly after registering for the first time at the University. They may also waive Composition 2 if they have received a “B” or better in a composition course at another accredited college or university. (See “Transfer Credit Policy” in the General Policies section below for more details on transfer-in credit.) Completing Composition 2 is a graduation requirement for all undergraduate students (though it may be met through approved transfer credit).

Math Requirements and Placement Policies

There are two distinct types of undergraduate mathematics requirement at Maharishi University of Management that are satisfied in entirely different ways.

• **The general education requirement in mathematics:** Undergraduate students need to take and pass at least one course (4 credits) in mathematics, statistics, or quantitative literacy described in the list of options below. Briefly: This requirement can be satisfied by transfer credit, but not by placement testing.

• **Major and prerequisite mathematics requirements:** A student’s major may require more mathematics and some courses have mathematics prerequisites. Briefly: These requirements can be satisfied by placement testing, but not by transfer credit, except at a very high level and then only if very recent and the grade was B or above.

How to satisfy the general education requirement in mathematics

The following list gives all possible options for satisfying the general education requirement in mathematics for a 4-credit course in mathematics, statistics, or quantitative literacy. Not all of these options are open to students in every major. The list of requirements and recommendations for each major is given below the list of options.
Option 1. Passing any MUM mathematics course numbered MATH 153 or higher (prerequisites apply to all except MATH 266), or
Option 2. Passing *Personal Finance* (MGT 203, no prerequisites), or
Option 3. Passing *Statistics for Business and the Environment* (MGT 314, prerequisite MATH 152), or
Option 4. Passing *Numerical Methods for Decision-Making* (MGT 307, prerequisite MATH 152), or
Option 5. Passing *Biostatistics* (PH 314, prerequisite MATH 153)
Option 6. Passing *Quantitative Reasoning* (MATH 130, no prerequisites), or
Option 7. Achieving a score of 4 or above on the College Board Advanced Placement Test in Calculus AB or BC, or
Option 8. Achieving a score of 60% or above in the CLEP Calculus Test, or
Option 9. Achieving a score of 5 or above on the IB HL Mathematics Exam, or
Option 10. Showing a course with a grade of C or above in mathematics, statistics, or quantitative literacy at the 100 level or above on a transcript from another accredited college or university attended before coming to MUM.

The general education requirement in mathematics is *not* satisfied by passing a placement test at MUM, *nor* by passing a course in high school.

Popular courses in Option 1 above are:
- MATH 170 Mathematics for Sustainable Living (prerequisite MATH 152 Elementary Algebra)
- MATH 200 Mathematics and Infinity (prerequisite MATH 051 Basic Math)
- MATH 266 Geometry for the Artist (no prerequisites, open only to majors in Art, Education, Writing, Literature, Creative Arts and New Media, and Consciousness and Human Potential (Maharishi Vedic Science)

The courses required or recommended by each department are given below. If a particular course or choice of courses is required, the general education requirement in mathematics *must* be satisfied by taking one of those courses. If a particular course or choice of courses is recommended, it is in your best interests to take one of those courses, but you are free to choose any option in the list of 9 options above.

BA and BFA in ART: MATH 266 Geometry for the Artist recommended; other options acceptable.

BA in AYURVEDA WELLNESS AND INTEGRATIVE HEALTH: MATH 130 Quantitative Reasoning, or MGT 203 Personal Finance, or MATH 153 Intermediate Algebra, recommended; other options acceptable.
BA in CREATIVE ENTREPRENEURSHIP (BUSINESS): Either MGT 307 Numerical Methods for Decision-Making or MGT 314 Statistics for Business and the Environment, required; other options not acceptable
BS in COMPUTER SCIENCE: The requirement is automatically satisfied by math courses in the major itself
BA in CREATIVE AND PROFESSIONAL WRITING: MATH 130 Quantitative Reasoning or MGT 203 Personal Finance, or MATH 266 Geometry for the Artist, recommended; other options acceptable
BA or BS in INDIVIDUALIZED MAJOR: Any option in the list, as appropriate
BA in LITERATURE: MATH 130 Quantitative Reasoning or MGT 203 Personal Finance, recommended; other options acceptable
BA in CONSCIOUSNESS & HUMAN POTENTIAL (MAHARISHI VEDIC SCIENCE): MATH 130 Quantitative Reasoning or MGT 203 Personal Finance, or MATH 266 Geometry for the Artist, recommended; other options acceptable
BS in MATHEMATICS: The requirement is automatically satisfied by math courses in the major itself
BA in CREATIVE ARTS AND NEW MEDIA: MATH 130 Quantitative Reasoning or MATH 266 Geometry for the Artist recommended; other options acceptable
BA in REGENERATIVE ORGANIC AGRICULTURE: Any option on the list, except not MATH 266
BA in SUSTAINABLE LIVING: MATH 170 Mathematics for Sustainable Living, recommended; other options acceptable, except MATH 266

How to satisfy major and prerequisite requirements in mathematics

The major and prerequisite mathematics requirements, on the other hand, need to be met by evidence of current mathematical knowledge and skill. For this purpose, the standing achieved on MUM’s mathematics placement tests takes precedence over courses taken at other colleges and universities. For example, if a student has transfer-in credit for a course equivalent to MATH 153, and then only places out of MATH 152 on the math placement test, and the student’s major requires MATH 153, then the result of the math placement test takes precedence: the student has to take and pass MATH 153 at MUM. Thus transfer-in credit for courses equivalent to MATH 051, 152, 153, 161, 162, does not satisfy major and prerequisite requirements.

Any of the following do satisfy major and prerequisite requirements in mathematics:

- Passing MUM’s mathematics placement test at any of these levels, or
- Taking and passing any MUM mathematics course, or
- Achieving 4 or above on the College Board Advanced Placement Test in Calculus AB or BC at most two years prior to entry to MUM, or
Achieving 60% or above in the CLEP Calculus Test at most two years prior to entry to MUM, or
Transferring-in credit for a course equivalent to any math course numbered 267 or above, with a grade of B or above and taken at most 3 years ago, from another accredited college or university. If the course was taken more than 3 years ago or had a grade less than B, it may be possible in some cases to take a placement test in order to waive the course.

Note that if, through a test, a student places out of a course that is required for the major, then the credits for that course count towards the total credits required for that major, although the credits will not count towards the overall total credits required for graduation.

Mathematics Placement Policies
On entry into Maharishi University of Management, all entering and readmit undergraduate students are required to be placed in mathematics, whether or not they have declared a major. This usually requires entering students to take a mathematics placement test, with some exceptions, according to the rules below. The results of this placement determine what mathematics (and some other) courses students are eligible to take. Helpful information about math placement is also available online at www.mum.edu/mathplacement.

1. Mathematics Placement Meeting. Every new and readmit student is required to come to the Mathematics Placement Meeting that usually takes place in the first week after the student arrives on campus. At this meeting, students learn about mathematics requirements at MUM and establish whether they need to take a placement test or not.

2. Students who must take a placement test:
   - New students majoring in Business, Mathematics, Computer Science, Sustainable Living, and continuing and readmit students who switch into or add one of these majors,
   - New students who have not yet decided on a major, unless they are sure that their major will not require mathematics or a mathematics prerequisite,
   - Students intending to take any course at MUM that has a mathematics prerequisite,
   - Readmit students who were previously placed in mathematics at MUM whose placement has expired according to rule 5 below.

Exceptions are students who fall into one of the bulleted categories in rule 3 below.
3. **Students who do not need to take a placement test (unless they want to):**
   - Students who sign a waiver agreeing to be placed into the lowest level of mathematics (MATH 051),
   - Students who have already satisfied their major, prerequisite, and general education requirements in mathematics,
   - Students majoring in Art, AyurVeda Wellness & Integrative Health, Literature, Writing, Consciousness and Human Potential (Maharishi Vedic Science), Creative Arts and New Media, Regenerative Organic Agriculture, Sustainable Living, and Writing, provided they:
     - already satisfy one of the nine options in the list of options for satisfying the general education requirement in mathematics above, or
     - agree to take a course without mathematics prerequisites to satisfy the general education requirement in mathematics.
   - Students who were placed in mathematics at MUM at most 1.5 years ago and for whom that placement is still appropriate.

   If such a student later switches to or adds a major or minor (or even just a course) that does require mathematics or a mathematics prerequisite, the student must apply these rules 2 and 3 again at that time, and take the placement test then, if these rules require him or her to.

4. **Further placement testing.** Students not satisfied with placement have the option to study on their own and take further placement tests (up to a total of 5 tests within one year, including the initial assessment) in the courses MATH 051, 152, 153, 161, and 162. These five tests can all be at the same level, or any combination of different levels. There are no additional tests for calculus.

5. **Expiry of mathematics placement standing.** If a student wishes to use standing in a math placement test to satisfy the prerequisite for a course, that course must be taken within one and a half years of the test. Otherwise, the test will need to be taken and passed at the required level again.

   **Requirements for a Certificate**

   **Forest Academies**
   Completion of the following:
   STC 108 Science and Technology of Consciousness
   *(This is the first course taken at the University and is a prerequisite for all other courses.)*
plus an additional Forest Academy for each semester in which the student is enrolled for at least three 4-week blocks.

• Students in one-year programs must take 2 Forest Academy courses.
• Students in 1 ½-year or longer programs are allowed to miss one Forest Academy during their certificate program.

Development of Consciousness (DC) Course
Required course first semester:
MVS 100 Instruction in the Transcendental Meditation technique (1 credit). This course is waived for those who have learned the TM technique before coming to the University.

Grade Point Average (GPA)
Cumulative GPA of 2.0 or higher

Certificate Program Requirements
Completion of requirements for specific certificates vary. Please consult the certificate requirements list in the appropriate department under “Academic Programs.”

Requirements for a Master’s Degree
Forest Academy Blocks
Completion of one of the following courses:
FOR 500 Science of Creative Intelligence: 33-Lesson
or STC 508 Science and Technology of Consciousness, or its equivalent as determined by the academic department
(One of these courses is the first course taken at the University and is a prerequisite for all other courses.)

plus an additional Forest Academy for each semester in which the student is enrolled for at least three 4-week blocks.

• Students in one-year programs may not miss any Forest Academies.
• Students in 1 ½-year or longer programs are allowed to miss one Forest Academy during their master’s degree program. If more than one is missed, a make-up is required.
• Students in evening/weekend programs may have different Forest Academy requirements.

Note: Some master’s degree programs may have different requirements.

Development of Consciousness (DC) Course
Required course first semester:
MVS 501 Instruction in the Transcendental Meditation technique (1 credit) This course is waived for those who have learned the TM technique before coming to the University.
Grade Point Average (GPA)
Cumulative GPA of 3.0 or higher. Graduate-level students whose average drops below 3.0 are placed on Academic Warning status and have one more semester to bring their average back to the minimum 3.0. At the end of the second semester, if the average is not at the required level, students will be allowed to petition for a probationary semester. Probation is not automatically granted. If the student does not petition, or the student’s petition for a probationary semester is denied, the student will be asked to leave the program to which they were accepted, with return conditions determined by the program faculty on a case-by-case basis.

Please see the Monitoring Student Progress section of this Catalog for more information.

Certificate Program Requirements
Requirements for various graduate certificate programs are given in this catalog by the departments offering the program(s).

REQUIREMENTS FOR A DOCTORAL DEGREE

Forest Academies
Completion of one of the following courses:
FOR 500 Science of Creative Intelligence
or STC 508 Science and Technology of Consciousness
(One of these courses is the first course taken at the University and is a prerequisite for all other courses.)

plus an additional Forest Academy for each semester in which the student is enrolled on campus for at least three 4-week blocks. Students in 1 ½-year or longer programs are allowed to miss one Forest Academy during their PhD or doctorate degree program.

Note: This requirement may be waived when a doctoral student teaches a Forest Academy.

Development of Consciousness (DC) Course
Required course first semester:
MVS 501 Instruction in the Transcendental Meditation technique (1 credit). This course is waived for those who have learned the TM technique before coming to the University.

Course Grades
A grade of “B” or higher in all courses
Core Curriculum
Completion of the essential courses, often called the “core curriculum” for a specific program of study, listed in “Academic Programs”

Comprehensive Exam (if applicable to the program)
This examination is taken after completion of the core curriculum in each program. Based on the results of this exam, the student may be awarded a master’s degree. The student must be registered during the block in which this examination is taken.

Qualifying Exam
This examination assesses the ability of the student to pursue doctoral research. (This examination should also cover any core curriculum beyond the master’s level for doctoral programs requiring a master’s degree for admission.) On the basis of successful completion of this examination, the student is advanced to candidacy for the doctoral degree.

Advisory Committee
This committee, formed by each doctoral student, should have at least four members including: the thesis advisor, a faculty member from the student’s department, a faculty member from Maharishi University of Management but another department, and one faculty member from another university or research institution. The membership of the advisory committee must be approved by the director of the doctoral program and the Dean of the Graduate School.

Dissertation Proposal
The dissertation proposal is approved by the student’s advisory committee and the Dean of the Graduate School.

Teaching and Research Service
All doctoral students who have passed their oral qualifying exams are typically asked to help teach courses and/or help as research assistants. These activities give the student necessary experience in teaching academic courses and in conducting research — two necessary skills in the career path of PhD graduates. Students who have reached the candidate stage are awarded PhD assistantships, which entail this teaching or research.

Advanced Course Work
Advanced courses will be prescribed by the thesis advisor and advisory committee to ensure that the student will have comprehensive knowledge of a major field and related subjects. The courses the student is required to take will depend upon prior academic background in relation to the selected graduate program and area of research interest.
Original Research for a Dissertation
Each student working toward a doctor of philosophy degree must conduct original research as the basis for a dissertation that makes a significant contribution to knowledge. The research is to be under the guidance of the thesis advisor and the advisory committee, and requires their approval. All doctoral students must be registered during each block in which they are working on their doctoral dissertation, whether or not they are in residence on campus. It is the policy of the University to permit and facilitate dissertation research by international students in their home countries, whenever feasible.

Written Dissertation and Abstract
Dissertation guidelines are available online at www.mum.edu/general-education/phd-requirements. Students should read these guidelines before beginning their dissertation.

When writing a dissertation, students work closely their major professor. Once the major professor has approved the dissertation, the student can submit the document to other committee members. The committee members will review the document and give their comments in a timely fashion—within two weeks. After incorporating all comments, the student will send updated copies of the manuscript to all committee members two weeks before the dissertation defense is scheduled.

When the dissertation committee has reviewed and approved the dissertation and the student has passed the dissertation defense, the student shall incorporate any further recommended changes and corrections before submitting it to the Library. To aid in completing the final dissertation, students present an electronic copy of their dissertations one month before graduation to the head librarian. Even if the dissertation is not complete, it should be presented to the librarian at this time. The head librarian will give the student feedback on formatting the dissertation. One week before graduation, the student must submit to the head librarian a final printed copy of the dissertation and abstract, an additional copy of the abstract, the microfilming and binding contract, the microfilming and binding payment receipt, and the required forms (see Microfilm and Publish section below). Everything needs to be complete at that time.

Oral Defense of the Dissertation
The oral examination in defense of the dissertation will be conducted and evaluated by the dissertation committee supplemented, at the discretion of the Dean of the Graduate School, by additional appointed faculty members. The examination will be scheduled for a date not earlier than two weeks after the dissertation and abstract have been submitted to the major professor and dissertation committee. The student must be registered during the block in which the final oral examination is taken.
Microfilm and Publish the Dissertation
All doctoral dissertations submitted to the Graduate School must be microfilmed. The University subscribes to the service offered by University Microfilms International.

- Two copies of the dissertation will be put in the Maharishi University of Management Library and will be available for interlibrary loan. The abstract will be published in Dissertation Abstracts, which will announce the availability of the dissertation in film form.
- The microfilming and binding fee required of all doctoral students submitting dissertations will cover the cost of the library microfilm copy, binding, and the publication and distribution of the abstract. The student may order additional bound copies through University Microfilms International.
- An extra fee is charged if the dissertation is to be copyrighted. Information about the amount of this fee and method of payment may be obtained from the Graduate School.

The University considers microfilming a form of publication; this does not, however, preclude publication of the dissertation in a journal or monograph, either in whole or in part.

GENERAL POLICIES

Transfer Credit Policy

- **Transfer-out Credit** – Maharishi University of Management uses a standard semester system with academic credits, or units, equal to semester-hours of credit.

- **Transfer-in Credit** – Maharishi University of Management will accept up to 90 credits in transfer toward its bachelor’s degree programs from any college that is accredited by the Higher Learning Commission or one of the other U.S. regional accrediting associations. The University also accepts credit from foreign colleges and universities with comparable governmental accreditation, and from other foreign institutions that are approved by the Registrar. On a case-by-case basis, MUM may accept transfer credit from institutions that are accredited by bodies recognized by CHEA, and then only for elective credit. Credit is generally awarded for academic offerings, but up to 16 units of technical/vocational postsecondary coursework may be used as elective credit.

Transfer credits are accepted for courses completed with a grade of “C” or higher. Transfer credit is evaluated on a course-by-course basis. Credits applied toward undergraduate major requirements will be determined by the faculty in those majors. Undergraduate degree students may apply transfer credits for up to half the course work in the major. Credits not approved as satisfying major requirements may be applied as elective credits toward Maharishi University of Management degrees.
The total of transfer credits accepted from other institutions is posted on the student’s Maharishi University of Management transcript without the grades given in those courses. Grades earned at other institutions are also not included in calculating a student’s Maharishi University of Management grade point average. Maharishi University of Management converts transfer credit from quarter system institutions using the formula one quarter-hour equals two-thirds of a semester-hour.

Prospective students may find out the total number of allowable transfer credit from their admissions counselor. Current undergraduate students can apply to their graduation advisor for evaluation of transfer credit towards general education, or to their departmental academic advisor for transfer credit towards major or minor requirements.

Mathematics requirements: Students whose transcripts on entry to MUM contain a mathematics course at the level of 100 or above, with a grade of C or above and taught by a mathematics department at an accredited university or college, are deemed to have satisfied MUM’s general education requirement in mathematics, except where a particular department requires a particular course or level of course to satisfy this requirement. (See the section Math Requirements and Placement Policies in this Catalog.) However, transfer credit for mathematics courses equivalent to Math 051, 152, 153, 161, 162, 281, or 282 does not satisfy mathematics requirements of those majors that require mathematics and also does not satisfy the prerequisite requirements for any course that has a mathematics prerequisite. For major and prerequisite mathematics requirements, the knowledge must be shown to be current on MUM’s Mathematics Placement Test.

Credit by Examination

Credit may be accepted through the following tests and evaluation services:

- The American Council on Education’s College Credit Recommendation Service (CREDIT®)
- The Armed Services courses recognized through the “Joint Services Transcript Service” (also from the American Council on Education)
- Advanced Placement (AP) examination credits from the College Board, with scores of 4 or higher
- College Level Examination Program (CLEP) tests from the College Board, with scores of 50 or higher
- International Baccalaureate (IB) Higher Level exams, with scores of 5 or higher
- DSST tests (formerly DANTES Subject Standardized Tests): the credit-by-examination tests originated by the United States Department of Defense’s Defense Activity for Non-Traditional Education Support (DANTES) program
Students may receive four credits for each exam up to a maximum of 32 credits. This credit may be used to waive courses at Maharishi University of Management as appropriate and may be applied toward general education requirements, undergraduate major requirements, or general elective credit.

Up to half of the credit toward one’s major program may be earned through transfer credit or CPL at the discretion of the program director.

Official determination as to how many and which courses will be accepted in transfer or as CPL can be made during or after the admissions process, when the University has received all official transcripts from prior coursework and official validation of prior learning from approved evaluators.

Estimates of transfer credit based on unofficial transcripts are subject to change, but a final determination of transfer credit awarded will be made within the first semester on campus, if not during the admissions process.

Any exceptions to these policies must be approved by the Dean of Undergraduate Studies.

Graduates of Maharishi School or the Ideal Girls School may receive 2 credits of Advanced Placement in Maharishi Vedic Science (general elective credit) for each year of attendance at Maharishi School or the Ideal Girls School for 10th grade through 12th grade.

Double Majors
Undergraduate students may major in two disciplines by satisfying the departmental requirements for each, though they need only complete one capstone project in one of the two disciplines. The second major must involve at least 24 credits of course work outside the first major department, and all course work for both majors must be completed before the degree is conferred. Before starting a double major, it is advisable for the student to meet with the Graduation Director and the Financial Aid Award Counselor to ensure feasibility of completing a double academic program.

Second Bachelor’s Degree
Students with a prior bachelor’s degree may enroll for a second bachelor’s degree. They may transfer up to one-half of the courses in the major on a course-by-course basis, to be determined by the academic department.
Students with a prior degree from Maharishi University of Management need only complete the following:

a. the major’s requirements,
b. a Forest Academy each semester they are enrolled at least three 4-week blocks, and
c. complete any general education graduation requirements that have been added since they last attended the University—except CCTS.

Students whose prior degree is not from Maharishi University of Management must complete the following:

a. the requirements of their new major (*Up to one-half of the credits may be transferred-in*)
b. MVS 100 or ED 101 Instruction in the *Transcendental Meditation* Program
c. STC 108 The Science and Technology of Consciousness (*This is the first course taken at the University and is a prerequisite for all other courses.*)
e. FOR 431 Higher States of Consciousness (2 credits) or MVS 202 Self-realization, Freedom, and Fulfillment (4 credits)
f. one Forest Academy for each semester enrolled at least three 4-week blocks

Note: Senior assessment testing is not required

**Second Master’s Degree**

Students with a prior Master’s degree may enroll for a second if the degree is in a different field, or, with the approval of the academic department, if the degree is in the same field but with a different emphasis. A student may apply up to 8 credits from the 1st master’s to satisfy degree requirements of the 2nd masters as long as the credits are substantially justified as contributing to the 2nd degree.

**Second PhD or Doctorate Degree**

Students with a prior PhD or professional degree who wish to pursue a PhD program should follow these steps to determine their academic program:

• Admission is determined by the respective department.
• A major advisor and an advisory committee (three members) are selected following the same criteria that are applied for other PhD committees, and the academic program is developed in consultation with the student.
• The academic program is submitted for review to the Dean of the Graduate School following its development by an advisory committee from the department. A copy of the advisory committee report must be attached.
• This review includes the appropriateness of the advisory committee membership, the academic program, and the transfer of courses or degree credits from one program to another.
Time Limits on Degrees

Declaration of Major: Undergraduate students must declare a major after taking 54 credits (generally three semesters) or, for transfer students entering with 36 or more credits, by the end of their first semester at MUM. Students who have not declared a major by this time will not be allowed to register for further course work.

Bachelor’s Degrees: Students may attempt a maximum of 192 credits (150% of the required number), including transfer credit, to complete their degree. Students leaving the University for more than one year must meet the new graduation requirements listed in the current Catalog when they return to the University. Financial Aid eligibility may terminate for the degree pursued immediately upon completion of all required coursework for that degree program.

Master’s degrees: All requirements must be completed within five years from the time of first enrollment in the program. Other restrictions apply for those receiving financial aid; contact the Financial Aid Office for more information. Students leaving the University for more than one year will be under the new graduation requirements listed in the current Catalog when they return to the University.

Doctoral degrees: Qualifying examinations are usually taken within 1½ years of completion of the core curriculum. The maximum allowable time is 2 years. After the qualifying exam is completed, students may take up to seven years to write and defend the dissertation proposal, conduct research, write, and defend the final dissertation. If students pass the seven-year mark, they will need to petition their department to continue with their dissertation research stating (1) reasons for the delay in their progress, and (2) a target date for finishing. Students leaving the University for more than one year will be under the new graduation requirements listed in the current Catalog when they return to the University.

Residency Requirements

Undergraduate students must take at least 38 credits of course work in residence for a bachelor’s degree. Exceptions to the undergraduate residency requirements may be made with the approval of the Academic Standards Committee. Graduate residency requirements vary by program; please consult with academic departments.

Student Records

Students have the right to view their records at any time. They must contact the Enrollment Center to make an appointment. Any documents to which the student has waived the right of access will be removed from their file before viewing is permitted.
Please see the University’s website under “Consumer Information”/“Academic Information”/“Family Rights and Privacy Act” for the University’s FERPA policies.

**Academic Transcripts**

An academic transcript is the complete record of a student’s academic life while at the University. It reflects all course work, grades, major areas studied, degree(s) received, and academic progress. Academic transcript requests may be submitted online at www.mum.edu/transcripts.

**Please note the following:**

The University may withhold transcripts if any of the following apply:

- A student has an outstanding balance with the University
- A student has borrowed property from the University (e.g. keys, library or lab materials, etc.) that has not been returned or compensated for
- A student has borrowed money in the form of a Federal Perkins Loan or Federal Stafford Loan and has left the University without completing the required Exit Interview

A student is past due or in default on their Federal Perkins Loan or Federal Stafford Loan payments. **Also note:**

- Some institutions will not accept paper transcripts that have been in the student’s possession and/or the envelope has been opened. If this is the case, request the transcript be sent directly to the institution.
- Transcripts from other U.S. schools cannot be copied; the student must order them directly from the other schools.

**Delivery**

Transcripts are processed in the order in which they are received. Please allow 2-4 business days for processing time. (Shipping time is in addition to this.) During peak request times, processing and delivery can take longer. Be aware that several departments must approve document content before a transcript can be released. Therefore, transcripts cannot be released the same day they are requested.

International requests will be sent FedEx unless this service is not available in your country.

**Fees**

You will be prompted to make your payment for transcript processing (and shipping charges if applicable) immediately after you submit your transcript request. Document processing and shipping charges must be paid at the same time, online. Processing cost is $5.00 per transcript. (There is no charge for MUM faculty, staff, and their dependents.)
For express shipping:

a) within the U.S.A. is $25 per address
b) outside the U.S.A. is $35 per address (Please note, some countries do not accept FedEx delivery.)

REGISTRATION POLICIES

All students, including new and readmitted students, are required to complete their registration at an assigned time before the beginning of each semester. Students are advised when to arrive for this registration. Students who are authorized to begin classes later in the semester register on the Friday before their first course begins.

Payment

All students must either make full payment, or make appropriate arrangements for payment, with the Enrollment Center at or prior to registration. Payment procedures and payment plans are described under the “Tuition and Fees” section in this Catalog. A student whose payments are past due may be suspended from the University; that means that the student will not be permitted to enroll or continue in courses, to remain on the meal plan, or to live in campus housing. Diplomas, certificates, or transcripts will not be issued to or for a student whose account is in arrears. Payments may be made at https://students.mum.edu/payment.

Course Enrollment

The University reserves the right to limit the enrollment in any course and to cancel any course if too few students have registered or due to other unforeseen circumstances.

Maximum Course Load

The recommended schedule for full-time study is 18 to 22 semester-hours (credits) each semester. However, some students may want or need to take coursework in excess of the recommended hours.

Requesting Excess Hours

Students who wish to take a course from another university in conjunction with their MUM course schedule must:

• be in good academic standing (see “Maintaining Satisfactory Academic Progress and Eligibility to Attend the University”)
• select a course that is a credit bearing, semester-long course offered by an accredited college or university. (Note: MUM online courses may not be used.)
• secure prior approval from his/her academic advisor (who then notifies the Graduation Director)
• meet with the Graduation Director
• successfully petition the Academic Standards Committee to request an exception to the 18–22 semester hour maximum. Petitions are available in the Enrollment Center or online here: https://students.mum.edu/appeals-petitions-proposals-and-other-forms-you-may-need.

Permission to take excess hours is not guaranteed. Students enrolled in ESL course work will not be given permission for excess hours until the ESL courses have been completed successfully.

Prohibition of Double Registration or Full-time Work While in a Standard Course
Since all day program University courses require full time effort and attention, students may not register for more than one standard course at a time. (Evening/weekend and distance education programs with courses offered over several months may be subject to different rules and constraints.) Similarly students should not plan on pursuing full-time, or nearly full-time, employment at the same time that they are registered for an on-campus day course. They will not find it possible to complete the required work during the course.

Changing, Dropping, or Withdrawing from Courses

It is important for students to be in class starting from the first day in order to hear the overview of the entire course on the first day. After the first day, later topics will be connected back to this overview. To minimize changing, dropping, or withdrawing from courses, students should meet with their advisor before the start of the semester and plan out a full year of courses using the schedule of available courses found at www.mum.edu/classes.

Note: If you are a U.S. student, withdrawing or dropping a course may affect your federal financial aid and delay your award disbursement.

If, in spite of careful planning, you must drop or change a course, the following policies apply:

Changing a Course
If a student wishes to change from one course into another, the student must obtain approval from his/her academic advisor. The student then comes to the Enrollment Center to be placed into the new class and receive an “Admit to Class” slip. The student presents this “Admit to Class” slip to the professor of the course being entered. The student must be in the new course by the afternoon of the second day of class.
Please note: Not all courses may be entered after the first day of class. Professors reserve the right to require attendance on the first day of their course.

**Dropping a Course**
A student may drop a course for any reason by 4 p.m. of the second day of a course by informing the Enrollment Center. Any student who lives on campus and drops a course must either move off campus for the remainder of the course or engage in a purposeful, constructive activity as approved by an Associate Dean of Students.

If the above criterion is met, the course is removed from the student’s academic record.

**Withdrawing from a Course**
Once a course has begun, and after the deadline for changing or dropping a course, a student may withdraw from a course for any reason as long as a request form is submitted to the Enrollment Center by 4 p.m. of the second Monday of a full-time course or within 25% of the calendar time of an online course. The request form must be signed by the professor of the course the student is withdrawing from as well as the student’s academic advisor. Any student who lives on campus and withdraws from a course must either move off campus for the remainder of the course or engage in a purposeful, constructive activity as approved by an Associate Dean of Students.

Students may withdraw from only one course per semester. If a student wishes to withdraw from another course in the same semester they would have to petition Academic Standards Committee (ASC) for an exception. If the petition is denied, and if the student stops attending the course, the student will receive an NC (no credit) grade.

A student may request a WH (health-related withdrawal) grade from their professor for a withdrawal due to illness or family emergency at any time during a course. The professor will require the student to provide documentation (nurse or doctor’s note, etc.) to verify the reason for the withdrawal. The request for a WH must be made within two weeks after the last day in which the student was present in class or participated in class, and the student must have been otherwise passing the course at the time of the withdrawal.

The Course Drop or Withdrawal Form can be obtained from the Enrollment Center or downloaded online at https://students.mum.edu/appeals-petitions-proposals-and-other-forms-you-may-need.

**Leaving the University**
Students who wish to take a break from their studies must inform their academic advisor before leaving campus. The Enrollment Center will remove the unattended class(es) from
the student’s record and fill out a “University Withdrawal” or “Change in Charges” form for the student as appropriate if an adjustment of charges and/or refund is warranted. Students who officially withdraw from the University, or have been suspended from the University, or have been away for one semester or longer must apply for readmission through the Office of Admissions when they desire to return.

**Directed Study**

Directed study is allowed only in special cases, e.g. when a course required for graduation is not offered when the student can take it. *Students may apply no more than eight credits of directed study in total to their graduation requirements.* To apply for a Directed Study, the student must fill out a Directed Study Proposal form with the instructor who will supervise the course. Forms are available at the Enrollment Center or online at https://students.mum.edu/appeals-petitions-proposals-and-other-forms-you-may-need.

**Policies for Requesting a Directed Study**

- A course that is not a graduation requirement cannot be requested for a directed study.
- Students cannot take a directed study if the desired course is available at another time in the year, unless it is their final year at MUM and two required courses occur at the same time.
- Directed studies are not independent studies. Directed study teachers are required to meet with the student at least three times per week for an hour each time to review progress and provide feedback.
- Faculty teaching a day program course cannot also teach a directed study course at the same time.
- Students who have skipped a required course to take a non-required course are ineligible to take the required course as a directed study.
- Students may take up to a total of 16 units of directed studies and internships, but not more than 8 units of directed studies.
- Students on Academic Warning or Probation status, or who have received one or more NC grades in the current or previous semester are ineligible for directed studies or internships. (Please refer to MUM Course Catalog’s “Monitoring Student Progress” section for more details on Academic Warning status.)

Please also note the following:

1. The Directed Study form must be signed by the Department Chair of the supervising faculty and the supervising faculty.

2. The form must be submitted to the Registrar in the Enrollment Center at least two weeks before the directed study is to begin and must be approved by the Academic Standards Committee. Directed Study forms submitted after the block begins are generally not accepted.
3. Directed Studies are allowed only on the Fairfield campus.

**Internships and Fieldwork**

Internships and fieldwork must meet the MUM Internship Guidelines, be supervised by a faculty member, and approved in advance by the Director of Career Services and the Registrar. Internship proposals are available at the Enrollment Center, Career Services, or online at [https://students.mum.edu/appeals-petitions-proposals-and-other-forms-you-may-need](https://students.mum.edu/appeals-petitions-proposals-and-other-forms-you-may-need). An internship proposal must be submitted to the Registrar at least four weeks before the internship is to start. Proposals submitted after the block begins will not be accepted.

On-campus internships for full-time students require the payment of tuition, room and board. Students must already be living on campus and may not use the 18-hour/week work program to cover room and board charges.

Undergraduate students are limited to a combined total of sixteen (16) credits of directed study and internship credit as part of their 128 required course credits for graduation.

Note: Students on Academic Warning or Probation, or who have received one of more NC grades in the current or previous semester, are ineligible to participate in internships.

**On-Campus Class Meeting Times**

Classes in day programs generally meet Monday through Friday from 10:00 a.m. to 3:15 p.m. with an hour break for lunch, and from 10:00 a.m. to noon on Saturday. Because of the importance of the classroom experience, attendance at all classes is required and points may be deducted from a student’s grade for unexcused absences. (Evening/weekend and distance education programs have their own class schedules.)

**Punctuality**

Because every minute of learning time in each class is precious, and as a courtesy to the faculty and students who make an effort to be in class on time, emphasis is placed on students being on time to every class. Most faculty will reduce a student’s grade for late minutes.

**Attendance**

Students are expected to attend and participate in all classes, except when they are sick, have a family emergency, or cannot be in class due to compelling reasons beyond their control. There are no “personal days” during academic blocks, and taking a class day off for other reasons will usually lead to a reduced final grade. Students should be especially vigilant with respect to days before or after holiday breaks. Airline travel should be scheduled around class attendance hours.
Students who miss more than two sessions for a 1-credit course, four sessions for a 2-credit course, or six sessions for a 4-credit course, or the equivalent, are liable for a No Credit grade in the course. (A session is a morning or afternoon meeting of a day program course.)

The Parental Exception
Parents with children at home are given more leeway. Parents may miss without penalty as many as 11 sessions (five and a-half days of a four-week block) due to a child’s illness or other events causing the child to be at home, as long as the parent stays in contact with the professor and keeps up with the work. Parents will still be graded on all assessments in the course.

Excused Absences and Illness
If a student must miss more than two sessions of a 1-credit course, four sessions of a 2-credit course, six sessions of a 4-credit course, or eight sessions of a 6-credit course due to illness or family emergency, the student may be asked to withdraw from the course with a grade of WH. The student may audit the remainder of the course but will not receive credit for it. Parents with young children at home are given more leeway (see paragraph above).

In the case of illness, students should notify their faculty immediately by email or telephone and may be required to have the illness confirmed in writing by the MUM campus nurse or a licensed healthcare professional. In the case of a family emergency, students should notify their faculty or a member of the Department of Student Life. If students do not notify their professor of the reasons for their absence, the faculty will presume that the absence is unexcused.

Unexcused Absences
Unexcused absences lead to a reduced grade. If a student misses two sessions of a 1-credit course, four sessions of a 2-credit course, six sessions of a 4-credit course, or eight sessions of a 6-credit course for reasons other than illness or family emergency, the student will be required to withdraw from the class and will receive a grade of No Credit.

Examinations
Students are not permitted to take examinations early, except for compelling reasons beyond their control. All students are required to complete each course fully, including taking the final examination on the date scheduled. Students must have the prior approval of the course instructor and the Academic Standards Committee before finalizing travel plans for an early departure. Students are required to submit a “Petition to Academic
Standards Committee” and include a note of approval from the course instructor before the final week of the course.

A similar policy applies to taking examinations after the last class session — prior approval must be secured from the course instructor. (See Late Work Policy below.)

**Late Work Policy**

Students may not hand in work after the last class session of a course unless they have made prior arrangements with the course instructor.

Maharishi University of Management does not give a grade of Incomplete. Students who are eligible to submit final work after the last day of a course (see criteria below) will be assigned an interim grade for the course based upon 1) completed work and 2) in-class performance accumulated by the end of the course, and also on 3) the work not yet completed. A zero (0) for the uncompleted work is figured into the interim grade. If the student submits the final work in accord with the above contract, resulting score(s) will be factored into the final grade for the course.

Students who are not able to complete the final work of a course, typically in the final week, due to illness or family emergency or other compelling circumstances beyond their control, may petition the professor in writing to grant more time. Most incomplete work should be made up during the weekend after the final day of a course. In the event the student is sick or otherwise incapacitated for this final weekend, the student has up to 32 days from the end of the course to submit work. (Distance Education students have six weeks, 42 days, instead of 32 days.) The faculty may also request documentation of the illness or other emergency.

This petition should not be used generally in the case of students who miss more than three full days, or six sessions, of a four-week course (or two days for a two-week course). These students should be given an NC or W depending on the circumstances. Nor should it be used when the student would like to re-do work for a better grade. The petition is only to cover work that cannot be submitted on time due to illness, family emergency, or other compelling circumstances. In addition, the late work contract should not be used more than two times in a year. Students who exceed this limit will be asked to meet with Student Life personnel to review their work-study-rest balance.

If the petition for additional time is granted by the professor, the next step will be to form a contract with the student, including the specific assignments that need to be completed and their due date(s). If the required work is submitted as specified in the contract before the professor turns in grades (generally ten days after the end of the course), the student
will receive the grade earned through in-class work and work done during the extended time.

If the required work is submitted after the end of the grading period, but within 32 days of the end of the class, in keeping with the contract, the student’s grade will be amended by the professor from what it had been at the end of the grading period to what had been earned by the end of the time agreed upon in the contract. After the 32 days from the end of the course, no grade can be altered in the Registrar’s database, except through written appeal to the Dean of Assessment and Undergraduate Studies.

Note: Students attending a course that ends at the end of a semester, students on Warning or Probation status, and MUM distance education students may have different late work submission deadline requirements. Contact the Registrar for more details.

**Course Participation Policy for Distance Education Students**

Students taking Distance Education (DE) courses are required to participate regularly in the course. In any 14-day period, the student should complete some assignment or activity that contributes to the course grade or is otherwise required. E-mail correspondence with the course instructor is not sufficient participation. Failure to participate in any 14-day period may result in the student being dismissed from the course with a grade of No Credit (NC).

**Early Access and Non-Participation Policy for Distance Education Students**

This policy defines legitimate reasons for a student to study ahead in a distance course and then be absent (non-participating) for a period of time that would otherwise violate the “14-day rule” requiring regular participation in an online course. This can occur, for example, if a DE student is going on an international assignment for their employer or is headed into a very busy time, e.g. DE students working in an accounting firm in early April. To receive approval for early access, the student must submit an *Early Access Agreement* form to the course instructor prior to the middle of the course. The maximum number of requested weeks of planned non-participation must not exceed 1 week for an online course that is 5 weeks or less, or 3 weeks for an online course that is 8 weeks or longer. This agreement cannot be used if the student is in the final 2 weeks of an online course. At that point, they must apply for a *Late Work Contract*. For other regulations concerning this policy, please refer to the text of the *Early Access Agreement* form.

**Standard Enrollment**

Students in day programs normally register for 1 unit of credit per week. All students are expected to be enrolled in every block. Enrollment in evening/weekend and distance education programs varies from program to program.
Enrollment of Undergraduates in Graduate Courses

In their senior year of college, with the approval of the academic department and the Dean of the Graduate School, students may take up to four graduate level courses (16 credits) before completing requirements for the bachelor’s degree. These undergraduate students will not be eligible for graduate assistantships, other forms of graduate student financial aid, or those services and prerogatives normally reserved for graduate students. Students enrolled in graduate classes while enrolled in an undergraduate program will be given an undergraduate status until the baccalaureate degree has been awarded.

After a student receives his/her baccalaureate degree and has been accepted into a master’s program, the graduate department may accept up to 16 credits of graduate level coursework completed with a B grade or better while the student was enrolled as an undergraduate student at MUM.

Additional Courses Required for Graduate Students

Graduate students may be admitted on the condition that they fulfill one or more undergraduate prerequisites to a graduate program. Credits earned in these courses generally do not count toward the minimum credit requirements for the graduate degree, but they may be eligible for financial aid.

Readmission

Students who have been away from the University for one semester or longer, or have officially withdrawn from the University, or who have been suspended from the University must apply for readmission by completing an “Application for Readmission” form with the Office of Admissions. Readmission is not automatic; applicants are subject to admissions review.

Doctoral Research Off Campus

Candidates for the doctoral degree may, with the approval of the advisory committee, carry on some of the research work off campus. Arrangements for registration may be made by applying at the Enrollment Center.

Class Selection

Class selection is held each spring for the next academic year. All returning students must meet with their academic advisor to complete their class schedule form for the next year’s classes. Any student who doesn’t have an academic advisor should come to the Enrollment Center and speak with the Assistant Graduation Director. Each returning student must bring their completed class selection form to the Graduation Director or Assistant Director in the Enrollment Center in order for the information to be entered into the Registrar’s database. Returning students who do not complete a class schedule form by June 30 for the following academic year will be charged a $75 late registration fee.
Course Numbering System

- **000–099**: Technical Training, Remedial or Certificate Courses
- **1xx and 1xxx**: Undergraduate First-Year Courses
- **2xx and 2xxx**: Undergraduate Lower Division Courses
- **3xx and 3xxx**: Undergraduate Upper Division Courses
- **4xx and 4xxx**: Undergraduate Advanced Upper Division Courses (open to some graduate students)
- **5xx and 5xxx**: Graduate Courses
- **6xx and 6xxx**: Advanced Graduate Courses

**GRADING POLICIES**

Evaluation of each student’s abilities and achievements is an integral aspect of the University. Among the means of evaluation are class participation, oral and written examinations, projects, and papers. In addition, to receive academic credit for any course, students are expected to attend all classes and participate fully.

Students will be able to view their grades and enrollment history in their personal, MyMUM account. Students having difficulty accessing their MyMUM account should notify the Registrar’s Office.

**General Grade Definitions**

**Grades and Grade Points**

- **AH 4.00** (excellent or exceptional with honors)
- **A+ 4.00** (exceptional)
- **A 4.00** (excellent)
- **A– 3.70**
- **B+ 3.30**
- **B 3.00** (good)
- **B– 2.70**
- **C+ 2.30**
- **C 2.00** (adequate)
- **C– 1.70**
- **NC 0.00** (No Credit. An NC means 0 credits for the course and this will negatively affect a student’s GPA.)

**Grade Codes Not Used in Computing Grade Point Average**

- **P** Pass
- **NP** No Pass
- **W** Withdrawal
Grade Descriptions

Though professors may apply different standards in their courses, the faculty have agreed upon the following general descriptors for the basic four grades given for assignments, examinations, and courses at the University:

A  The grade of “A” is given for work that is excellent. It is distinctive and exceptional. It goes beyond competence and exhibits a high level of insight, critical evaluation, and/or awareness of the subtleties or nuances of a subject. Any work meriting this grade succeeds as a coherent whole, with clear command of the details that make up the whole.

B  The grade of “B” is given for work that is good. This work demonstrates basic comprehension of the major concepts of the course and competency with respect to the knowledge and skills identified in the learning objectives of the course.

C  The grade of “C” is given for work that meets the minimal expectations of the faculty as identified in the learning objectives of the course. Though not necessarily complete, this work is adequate to pass the course. The broad outline of the subject seems to have been grasped, along with many of the major concepts.

NC (No Credit) — This grade is given to work that substantially misses the broad goals of the course as outlined in the syllabus. This work does not demonstrate comprehension of the assigned work, even at a basic level. This work may have been done without fully reading the assignment and/or coming to class. The grade of “NC” is also given for failure to complete 70% of the required work in the course (e.g. class participation, homework and other assignments) and for excessive absences as described above.

A grade of “NC” requires academic counseling with the student’s academic advisor. Students who have received an NC in the previous or current semester may be ineligible for directed studies, internships, and/or Rotating University courses. If a student receives three NC grades in two consecutive semesters or the same semester, the student is academically ineligible to continue at the University at the end of that semester. (NC grades prior to Spring 2011 semester are not subject to this policy.)

P, NP (Pass/No Pass) — These grades are used in many Forest block courses, as well as in laboratory, fieldwork, practicum courses, and occasionally for other courses. The “P” grade is not included in the GPA, but is equivalent to a “C” or better.
**W (Withdrawal)** — This grade is granted under certain circumstances. (See “Course Withdrawals” listed above.)

**WH (Health-related Withdrawal)** — This grade is granted when a student who was otherwise passing the course needs to withdraw due to illness or family emergency. (See “Course Withdrawals” listed above.)

**PW (Pass/Waive)** — This grade is used to indicate a course waived by examination. No hours of credit are awarded.

**AU (Audit)** — Note: This option is not available to students who are receiving federal financial aid.

Students are required to pay full tuition for all audited classes. (Although visitors with prior permission from the instructor may sit in on individual class sessions, anyone who attends an entire course is required to officially register as a student.)

To audit classes, students must have the written approval of both the instructor and the Academic Standards Committee before the course begins.

Petition to Academic Standards Committee forms are available in the Enrollment Center or online at https://students.mum.edu/appeals-petitions-proposals-and-other-forms-you-may-need.

No credit is given for a course in which the student receives a grade of AU. However, Auditors are expected to participate fully in the class including taking the final exam. If the student does not fulfill this requirement, a grade of “NC” will be given for the course and the NC will be included in the student’s GPA.

**H (Honors)** — This grade is added to an instructional course grade when a student has completed the Honors requirement for that course and has earned at least an A- in the rest of the assessments. (See below.)

**R (Repeated or replaced)** — This grade means that the course was repeated or replaced by another approved course and that this grade has been removed from the student’s Grade Point Average.

**Grade changes**
A course instructor may submit a change of grade to the Registrar’s Office through the online grade submission system. The changes are then entered on the student’s record.

**Honors for Undergraduates**
1. An Honors Component may be available for undergraduate courses. Successful completion of the Honors Component and a grade of A or A- is required in order to receive Honors. The Honors grade will be reflected on the transcript.
2. Undergraduate students achieve the President’s Honor Roll for each semester in which they complete at least 12 credits of instructional course work with a grade point average of 3.70 (“A-”) or higher, and receive no NC or NP grades.

3. Graduation honors (summa cum laude, magna cum laude, and cum laude) are given to undergraduates based on the student’s academic excellence and holistic development.

Appealing a Grade

Students not satisfied with a grade awarded them should first discuss the matter with the course instructor. If that does not settle the appeal satisfactorily, then the student has 30 days after the grade was sent out by the Registrar to file a written appeal with the department chair, and, if still not a satisfied, after another 15 days, with the Dean of Assessment and Undergraduate Studies.

Repeating a course for a higher grade

Repeating a course for a higher grade is permitted in rare cases with approval of the Registrar and the course instructor. Credit is given only once, but the registration and grade for both courses will appear on the transcript. Only the higher of the two grades is used in calculating the GPA beginning with the semester in which it is earned.

If there have been extenuating circumstances, a graduate student may request to retest on an examination as long as: 1) the student has received a grade of less than a B but higher than an NC on an examination, 2) the student understands that no matter how well one performs on the retest, the final grade for the course cannot be higher than a B, and 3) the nature, extent, and preparation for the retest is determined on a case-by-case basis by the course instructor.

HEALTH-RELATED FITNESS
GRADUATION REQUIREMENT POLICIES

All undergraduate students must complete the knowledge-based graduation requirement FOR 103 Health-Related Fitness.

Undergraduate students are encouraged to participate in four hours of dynamic physical activity each week and to obtain a fitness assessment each semester. This fitness program is an individualized flexible program that is designed and implemented by each student. The faculty in the Department of Exercise and Sport Science are available to assist the students to plan and implement their individualized health and fitness program.
MONITORING STUDENT PROGRESS

Maintaining Satisfactory Academic Progress and Eligibility to Attend the University

To maintain satisfactory academic progress and eligibility to attend the University, students must meet three standards listed below. These standards are evaluated at the end of each semester. If a student is not meeting any one of these standards, the student is placed on “Academic Warning” for that standard for the following semester. A student not meeting that standard by the end of the “Academic Warning” semester will no longer be eligible to attend the University. Students on academic warning are not eligible for Rotating University courses, directed studies, or internships (except when required by department for graduation).

1. Grade Point Average
Undergraduates must maintain a 2.0 Grade Point Average (GPA), and Graduates must maintain a 3.0 GPA. Repeated courses use only the higher grade. Transfer credits earned at other institutions are excluded from the GPA calculation. Students who fall below the designated level are put on warning for the next semester.

2. Completion Rate
Undergraduate students must complete two-thirds of instructional credits attempted, within the current degree (excluding RC and REC courses, but including DC courses). Unattended courses are removed from the student’s record and are therefore excluded. Grades of “W,” “NC,” “NCR,” “NP,” “I,” and “AU” are counted as credits attempted but not completed. Transfer credits are not counted as attempted or completed.

3. Maximum Time Frame
Undergraduate students may attempt a maximum of 150% of the number of credits normally required to complete their program. For example, an undergraduate degree requires 128 credits so undergraduates may attempt a maximum of 192 credits to complete their program, including transfer credits, double majors, and switching majors. A student who has 174 credits is placed on “Warning” status the following semester.

Appeal, Probation, Loss of Aid Eligibility to Attend, and Reinstatement
Appeals to loss of eligibility after the “Academic Warning” semester must be made in writing to the Academic Standards Committee through the Registrar.

Appeals will only be granted to students who can demonstrate that the circumstance leading to their inability to meet any one of these standards was unexpected and beyond their control, and that the problem is not likely to occur again. If the appeal is granted, the student will be placed on “Academic Probation” for the following semester, with eligibility for financial aid, and must meet the standard by the end of that semester. ASC
has the ability to specify a longer probation period for students with a specified academic plan to rectify the difficulty, during probation, for example DE students whose course load may take some time to rectify the problem.

Reinstatement may be achieved after all of the three standards have been satisfactorily met. For example, a student may have an approved Late Work Contract; completion of the late work may allow the student to meet the applicable deficient standard. Or a former student may earn credit at another institution demonstrating and specifying that the difficulty causing the earlier deficiency has now been rectified.

**Suspension**

Students are eligible for suspension from the University if
- they do not meet satisfactory academic progress as listed above,
- they violate the code of student behavior as outlined in the Maharishi University of Management Student Handbook
- they don’t pay their outstanding charges as mentioned above.

The Student Handbook describes the code of behavior, the procedures that are followed when a student is reported to have violated that code, the possible results of a behavioral infraction, the consequences of suspension, and the policy for an appeal of a decision. The Maharishi University of Management Handbook may be found at www.mum.edu/handbook.

A suspended student must apply for readmission through the Office of Admissions before returning to the University.

**Additional Points for Graduate Students**

- **Master’s programs** — Some departments will not permit students to remain in a program if there is an accumulation of more than a specified number of graduate credits below a “B” grade even though the overall Grade Point Average is 3.0. Students who fail to meet the standards set by the department may be required to withdraw at the end of any block.

- **Professionals and MS CS DE program** — The above Standards of Academic Progress do not apply to graduate Professionals program students or MS in Computer Science distance education students, because their academic departments have their own separate standards.

- **Doctoral programs** — These programs require a grade of “B” or higher in all courses. Doctoral students who are unable to meet the standard of doctoral quality work, as determined by the advisory committee, may be asked to withdraw at the end
of any block. At the end of each semester, the advisory committee interviews all doctoral students to evaluate and discuss their progress in the program.

**ACADEMIC HONOR CODE**

Personal integrity, honesty, and honor are essential qualities of an ideal student and a developing leader. The University has established an Academic Honor Code that sets forth the standards of academic honesty and personal integrity expected of all students.

**Academic Honor Code Guidelines**

Students learn and grow when they receive feedback on their own thinking and its products, and when they use that feedback to improve their knowledge and skills. Students experience progress when something they themselves have composed receives confirmation or correction, whether it be from a classmate or a professor. Consequently, the following principles govern the assessment of student work at the University.

- Any work represented as one’s own must be the product of one’s own thinking and research. This applies to all assigned work, including papers, examinations, quizzes, and oral presentations. In composing papers, students are encouraged to seek feedback from others on the work in progress, but are expected to do the writing themselves.

- Any ideas drawn from sources other than the syllabus itself must be properly credited. This includes not only direct quotes, but also ideas drawn from other course syllabi, videotaped lectures, and other University-related publications, other than those assigned in the current course. All sources used verbatim should be credited by quotations, including unpublished work. (For further details see plagiarism guidelines below.)

- If a student knowingly allows another student to copy their work, that student will be subject to the same remedial consequences as the student who did the copying.

- Students who report their attendance or any other records contributing to the final course grade are required to be faithful and accurate in their reporting. Students should not report in for other students except through prior arrangement with the course faculty.

- Students who become aware of a failure to uphold the standards of the Academic Honor Code should notify the faculty member teaching the course.

- The standards of the Academic Honor Code apply to Development of Consciousness courses as well. Any action that misrepresents a student’s attendance during group meditation or group program is not honest. Some examples of dishonesty in this area are as follows:

  1) passing one’s ID badge through the bar code scanner and not attending the full
group meditation or group program.

2) having another student pass one’s badge through the scanner.

3) passing another student’s ID badge through the scanner.

**Consequences of Academic Honor Code Violations other than Plagiarism**

For reported Academic Honor Code violations other than plagiarism, the alleged violator will meet with the course instructor and/or the department head, at the discretion of the course instructor, and, for more severe or repeated reported violations, with the Academic Standards Committee or a subcommittee thereof (‘the Committee’) and the course instructor.

A course instructor may decide to lower a grade on an assignment, even to a “No Credit” (NC), and the department head may decide to give a student an NC for a course. The instructor will notify the Dean of Assessment and Undergraduate Studies, who keeps a record of all such violations. The decision to suspend a student can only be made by the Committee, which will review the situation and determine the remedies based on the facts and circumstances of the behavior in accordance with the procedures outlined below.

**Definitions and Consequences of Plagiarism**

It is of the utmost importance that students reference any and all textual material used in their writing done for class, and that specific words borrowed from other writing are footnoted—in homework assignments, examinations, and projects completed for a class. Any work that is used in whole or part and presented as one’s own is considered plagiarism. Also not acceptable is “patchwriting,” in which one copies the concepts and structure of another work but inserts words here and there to make it seem as one’s own.

Consequences for plagiarism vary with the levels of severity described below. Five factors considered in the determination of severity are 1) length of the citation, 2) whether the misrepresentation was intentional or not, 3) whether or not the quote is central to the argument being made, 4) whether the plagiarism was substantive or semantic only (using others’ words but not their ideas) or both, and 5) whether the student has had prior violations of the Academic Honor Code for plagiarism.

**Level 1.** Accidental, involving two or three sentences at most

*Definition:* Plagiarism that involves lifting anything from a phrase to a few sentences from another source and neglecting to cite that source, not realizing the significance of the offense, not remembering that the idea was borrowed, or simply forgetting to cite the source.
**Consequence:** Leads to a meeting with the professor and a warning. The Department Chair of the department in which the course is offered is also notified, as well as the Dean of Assessment and Undergraduate Studies.

**Deciding Agency:** Classroom professor

**Level 2.** Accidental, but longer passages; or contributions intentionally attempting to misrepresent another’s work as one’s own, from a phrase or a sentence to a paragraph or two; or an idea that is claimed as one’s own; or a repeat in the same or a subsequent course of a Level 1 mistake.

**Definition:** A full paragraph or more, even when claimed to be accidental, requires more attention to accomplish and therefore has more serious consequences. A more severe instance is inserting several sentences or a paragraph with the intention to claim another’s work as one’s own. Or the student presents an idea as one’s own when the same idea is clearly presented elsewhere by another writer.

**Consequence:** Anything from NC on the assignment to an NC in the course and academic probation, depending on the length, intentionality, and substantive nature of the offense. A faculty facing this kind of violation will decide the proper consequence with the Department Chair and notify the Dean of Assessment and Undergraduate Studies.

**Deciding Agency:** The professor in consultation with the Department Chair.

**Level 3:** Submitting another’s paper or work as your own; a repeat in the same or a subsequent course of a Level 2 offense while a student is on academic probation for a prior offense

**Definition:** A student presents a paper, project, or other intellectual property as one’s own, which is subsequently established to be borrowed, stolen, or purchased from another author.

**Consequence:** Suspension immediately and continuing for two semesters subsequent to the semester in which the student is enrolled; student has to leave campus.

**Deciding Agency:** The Department with the Academic Standards Committee.

**Academic Honor Code Violations Referred to Academic Standards Committee**

In the event a reported Academic Honor Code violation is referred to the Academic Standards Committee or a subcommittee thereof (“the Committee”) for consideration, the student will be given reasonable notice of the time of the meeting and the nature of the
concern. The student may choose to invite their academic advisor and/or one member of the Global Student Council to join the Committee (optional). The student may also invite a parent, or one other MUM student, faculty member, or administrator to attend; however, this person will not be a member of the Committee. Individuals with relevant information may be invited to attend to offer such.

The Committee reviews any observations, statements, or reports of Code infractions, and confers with the student for an explanation about them. The student and those not on the Committee then leave the meeting, and the Committee then determines 1) if it is more likely than not that any Code infraction appears to have occurred, and if so, 2) what measures, if any, should be taken. Only the Committee members are eligible to vote on any measure proposed by one or more of its members. If the student in need of attention elects to not attend the meeting, the Committee will meet without the student and decide what corrective measures if any, the University should take.

The Committee will determine the appropriate consequence, which may, among others, include warning, grade reduction on the assignment or course, probation or suspension.

The Committee’s decision will be communicated to the student in writing and will include the reasoning behind the decision. If the student is placed on either probation or suspension, the terms and period will be noted. A copy of the letter will be placed on file in the Office of the Dean of Teaching and Learning. A memo indicating that a student has been suspended will be given to the student’s advisor and placed in the student’s file in the Enrollment Center. However, warning, probation, and suspension information will not be placed on the student’s transcript.

In case of suspension, any student residing on campus generally must move off campus within 48 hours. However, the Committee may require an earlier departure or approve a later departure in light of the circumstances. Students suspended from the University must check out with Housing (see Housing: Room Check-Out Procedures section in the Student Handbook www.mum.edu/handbook), the Graduation Director, and Financial Aid, and are subject to the University’s Refund Policies.

Students who have been away from the University for one semester or longer and students who have been suspended for any reason must apply and be accepted for readmission by completing an “Application for Readmission” form with the Office of Admissions. Readmission is not automatic; applicants are subject to admissions review.

**Appeals**

Students may file appeals if they believe that there has been a significant substantive or procedural error that significantly impacted the outcome of the meeting; or that
significant evidence has been overlooked, or the conclusion of the Committee is not supported by the facts; or that new and significant evidence has become available, not available during the initial meeting, that can significantly impact the outcome. Appeals must be made in writing within 72 hours of receiving the Committee’s written notification. The appeal should outline the basis for it in light of the above criteria. Appeals of decisions made by the course instructor are submitted to the department head for final review. Appeals of decisions made by a department head are submitted to the Academic Standards Committee for final review. Appeals of decisions made by Academic Standards Committee or a subcommittee thereof are submitted to the Dean of Faculty of the University for final review.
ADMISSIONS

General Admissions Statement

Maharishi University of Management was established for the purpose of providing an education that allows the individual to unfold and achieve their full potential. Maharishi University of Management is committed to the goals set forth by our founder Maharishi Mahesh Yogi which are: To realize the highest ideal of education; To develop the full potential of the individual; To maximize the intelligent use of the environment; To improve governmental achievement; To solve the problems of crime, drug abuse, and all behavior that brings unhappiness to our world family; To bring fulfillment to the economic aspirations of individuals and society; To achieve the spiritual goals of humanity in this generation.

Maharishi University of Management is committed to providing students the unique experience of Consciousness Based education. Consciousness Based education is education that provides Enlightenment to the student, and has four primary components: 1) Academic excellence – study of traditional subjects in the light of consciousness – a unifying framework. 2) Direct development of consciousness through the twice-daily practice of Transcendental Meditation and the advanced TM-Sidhi program including Yogic Flying. 3) Consciousness-Based teaching and learning techniques that develop holistic awareness. 4) Stress-free routine and nourishing environment.

STUDENTS SHOULD APPLY ONLINE AT
www.mum.edu/apply

Applicants who plan to enter in the fall semester (generally beginning in mid-August) should submit their completed applications no later than July 15. (For students applying to the master’s degree cooperative programs, the deadlines may differ.) For all students planning to enter in the spring semester, the date is January 20. Applying by these dates gives applicants the best opportunity for receiving the maximum financial assistance if accepted, and helps assure space being available in the program for which they are applying. Applications received after these dates will also be considered and, in many cases, programs will be able to accommodate additional students.
To be considered for admission, prospective students should complete all aspects of the application process.

U.S. STUDENT ADMISSIONS

U.S. UNDERGRADUATE ADMISSIONS

Criteria for Undergraduate Admissions

Applicants to the undergraduate programs are considered for admission after a comprehensive evaluation of their completed application, high school records (and previous college records, if applicable), SAT or ACT scores (if required), recommendation, and an interview with an Admissions Representative. Applicants must express a sincere desire for Consciousness-Based education.

- **Essay** — Applicants are required to submit a personal statement.

- **Professional Recommendation** — Applicants are required to provide a professional recommendation. It may be from a teacher or employer who has had professional relations with the applicant within the last year.

- **Academic Record** — Applicants are required to provide a record of high school transcripts (and previous college records, if applicable), SAT, ACT, or COMPASS test scores (if required). A grade point average of at least 2.5 is generally required (when applicable), but exceptions can be made for specific situations.

- **Admissions Interview** — An interview with an admissions counselor is a required part of the application process. The interview can be done by phone/Skype, or in person if the student visits prior to enrollment.

- **Campus Visits** — We offer 10 Visitors Weekends throughout the year. These programs for prospective students and their families or partners provide a complete introduction to the University and are highly recommended for anyone seriously considering enrolling at Maharishi University of Management.

- **Transcendental Meditation** — Applicants are encouraged to learn the Transcendental Meditation technique before enrolling at Maharishi University of Management. Admissions counselors can help direct applicants to the nearest Transcendental Meditation teacher.

High School Verification

Applicants who did not complete their high school study are required to submit one of the following: 1) General Educational Development (GED) certificate; or 2) a certificate of completion of a home-study program if the program is recognized by the student’s home state, or if the program is not recognized by the student’s state, the state must not
consider the student to be in violation of truancy laws. Home-schooled applicants must also submit a complete home schooling record. All certificates and transcripts from high schools, colleges, and correspondence schools should be sent directly from the school or state agency to the Admissions Office.

**Note:** If an applicant has 24 or more transferable credits from a prior college, it’s not necessary to submit a high school document.

While an applicant’s previous academic performance is a primary consideration, commitment to gaining maximum benefit from the educational opportunities offered at Maharishi University of Management is an equally important consideration in the admission process.

**U.S. GRADUATE ADMISSIONS**

**Additional Criteria for Graduate Admissions**

Individuals who have earned a bachelor’s degree, or are in their senior year of college, may apply for admission to a program of graduate study at the University. Admission decisions are based upon the applicant’s academic record in undergraduate programs and other graduate programs (if applicable), graduate entrance examination scores (if required), experience, personal qualifications, recommendations, admissions interview, and additional department-specific materials (such as portfolios and essays). Applicants must express a sincere desire for Consciousness-Based education. In some cases, applicants are also requested to learn the Transcendental Meditation technique before enrolling at Maharishi University of Management.

**Grade Point Average (GPA)**

A grade point average of at least 3.0 (on a 4.0 scale) in the third and fourth years of undergraduate study is required by the Graduate School for regular admission to graduate programs. Exemptions are granted for specific situations.

**U.S. TRANSFER STUDENTS**

Maharishi University of Management welcomes qualified transfer students. For the number of credits that may be transferred by undergraduate and graduate students, the method for evaluating those credits, and residency requirements, please refer to “Transfer Students” in the “General Policies” section of this Catalog. All transfer approval must be completed within the student’s first semester at the University, except for students receiving Veterans Educational Benefits (evaluation is done automatically upon enrollment).
Transfer students applying for U.S. financial aid must submit all transcripts from all previous schools to the Office of Admissions. Before financial aid can be awarded, these transcripts must be reviewed to determine class standing and eligibility.

INTERNATIONAL STUDENT ADMISSIONS

Application Deadlines
Maharishi University of Management welcomes international student applicants for most of the University’s programs.

Deadlines for submitting an online application:

Deadline for spring entry: October 31
Deadline for fall entry: May 15
Deadline for April entry (ESL only): January 31
Deadline for October entry (ESL only): July 31

STUDENTS ARE REQUESTED TO APPLY ONLINE AT http://mum.edu/apply

In order to process applications and immigration forms in a timely way, completed applications, including all required documents, should be received by the Office of Admissions no less than two months in advance of the start of the new academic semester or program starting date.

ADMISSION TO NON-DEGREE PROGRAMS

1. Students Taking a Single Course
Applicants with a specific interest into a particular subject, who do not want to take an entire university program, may participate in up to 8 credits of university courses without enrolling as a degree-seeking student.

These students will participate in class but will not receive credit or a transcript after completing their study. If a student taking a single course later becomes a degree-seeking student at MUM, the course and grade may be transferable to a degree-seeking program.

MUM cannot provide documents for an F-1 student visa for single-course applicants. These students will need to arrange their travel under a tourist visa.

One can apply anytime for a single course by paying an application fee of $20. After submitting the online application and paying the application fee, an admissions counselor will contact the applicant, who will receive a checklist of forms and documents to submit. The deadline to submit all documents is two weeks before the course starts.
Criteria for Admission of Students Taking a Single Course

- **Transcendental Meditation** — Each applicant is strongly encouraged to learn the Transcendental Meditation technique before enrolling at Maharishi University of Management.

- **Professional Recommendations** — Applicants are required to provide two professional recommendations. It may be from a teacher or employer who has had professional relations with the applicant within the last two years.

- **Academic Record** — Scanned copy of a high school transcript

- **Resume** — If the applicant is attending MUM for the first time, it’s helpful for us to have more background on their recent academic and/or professional experience. For students who are internal to the MUM campus community, this material may not be required.

- **Prerequisite courses** — Some university courses cannot be taken without having completed certain prerequisite course(s). The final decision to accept for accepting a student depends on the teacher of the course.

2. Non-Degree Programs

The English as a Second Language program (ESL) and the Certificate in Regenerative Organic Agriculture program (ROAC) are available for international applicants. The ESL program has four entries in an academic year: Spring (February), April, Fall (August), and October. The ROAC program starts in Spring (February).

Criteria for Admission to the ESL Program

- **Transcendental Meditation** — Each applicant is required to learn the Transcendental Meditation technique as part of their admissions.

- **Professional Recommendations** — Applicants are required to provide two professional recommendations. It may be from a teacher or employer who has had professional relations with the applicant within the last two years.

- **Academic Record** — Scanned copy of a high school transcript

Criteria for Admission to the Certificate in Regenerative Organic Agriculture

- **Transcendental Meditation** — Each applicant is strongly encouraged to learn the Transcendental Meditation technique before enrolling at Maharishi University of Management.

- **Essay** — Applicants are required to submit a short essay.

- **Professional Recommendations** — Applicants are required to provide two professional recommendations. It may be from a teacher or employer who has had professional relations with the applicant within the last two years.

- **Academic Record** — Scanned copy of a high school transcript
INTERNATIONAL UNDERGRADUATE ADMISSIONS

Criteria for International Undergraduate Admissions

Applicants to the undergraduate programs are considered for admission after a comprehensive evaluation of their completed application, high school records (and previous college records, if applicable), SAT or ACT scores (if required), recommendation, and an interview with an Admissions Representative. Applicants must express a sincere desire for Consciousness-Based education. Certain cases applicants are also requested to learn the Transcendental Meditation technique before enrolling at Maharishi University of Management.*

*The Admissions Office can help each applicant connect with a qualified instructor of the Transcendental Meditation technique.

- **Transcendental Meditation** — Each applicant is strongly encouraged to learn the Transcendental Meditation technique before enrolling at Maharishi University of Management.
- **Essays** — Applicants are required to submit short essays.
- **Professional Recommendations** — Applicants are required to provide two professional recommendations. It may be from a teacher or employer who has had professional relations with the applicant within the last two years.
- **Academic Record** — Applicants are required to provide a record of high school transcripts (and previous college records, if applicable), SAT, ACT test scores (if required). A grade point average of at least 2.5 (when applicable). Exceptions to GPA requirements may be made for specific situations. The copy of all records of any previous schooling (mark sheets, transcripts, diplomas, certificates, etc.) must be submitted as official certified documents directly from each institution. Any photocopies must have the signature of a school official and the school seal. These records must show courses taken and grades earned and must be translated into English if the original records are in another language. When a translation is supplied, the original record must also be included. Translations must be officially certified by a translator or interpreter. All records should be mailed to: Admissions Department, Maharishi University of Management, 1000 North Fourth St., Fairfield, IA 52557, U.S.A.

Applicants who did not complete their high school study are required to submit one of the following: 1) General Educational Development (GED) certificate; or 2) a certificate of completion of a home-study program if the program is
recognized by the student’s home country. Home-schooled applicants must also submit a complete home schooling record. All certificates and transcripts from high schools, colleges, and correspondence schools should be sent directly from the school or state agency to the Admissions Office.

- **English Proficiency** — All applicants who are not native English speakers must submit official TOEFL iBT, IELTS Academic, or PTE English test scores. Students may register for the TOEFL iBT and request that scores be forwarded to the University at the time of the test; or by writing to the Educational Testing service, Box 592, Princeton, New Jersey 08540; or by e-mailing the contact form at www.ets.org/toefl/contact?WT.ac=toeflhome_contactus_121127. The University’s college code number for this purpose is 4497.

  **English Proficiency Scores:**
  - TOEFL iBT scores 80
  - IELTS Academic: 6.0
  - PTE: 51

- **Admissions Interview** — An interview with an admissions representative is a required part of the application process. This is done over the telephone or via Skype.

**INTERNATIONAL GRADUATE ADMISSIONS**

**Additional Criteria for Graduate Admissions**

Individuals who have earned a bachelor’s degree, or are in their senior year of college, may apply for admission to a program of graduate study at the University. Admission decisions are based upon the applicant’s academic record in undergraduate programs, other graduate programs (if applicable), graduate entrance examination scores, experience, personal qualifications, recommendations, and proposed program of study. Applicants must express a sincere desire for Consciousness-Based education. Certain cases applicants are also requested to learn the Transcendental Meditation technique before enrolling at Maharishi University of Management.*

*The Admissions Office can help each applicant connect with a qualified instructor of the Transcendental Meditation technique.

- **Transcendental Meditation** — Each applicant is strongly encouraged to learn the Transcendental Meditation technique before enrolling at Maharishi University of Management.

- **Essays** — Applicants are required to submit short essays.
• **Professional Recommendations** — Applicants are required to provide two professional recommendations. It may be from a teacher or employer who has had professional relations with the applicant within the last two years.

• **Academic Record** — Applicants are required to provide a record of their undergraduate transcripts (and previous college records, if applicable), GMAT, GRE test scores (if required). A grade point average of at least 3.0 (on a 4.0 scale). Exceptions to GPA requirements may be made for specific situations. The copy of all records of any previous schooling (mark sheets, transcripts, diplomas, certificates, etc.) must be submitted as official certified documents directly from each institution. Any photocopies must have the signature of a school official and the school seal. These records must show courses taken and grades earned and must be translated into English if the original records are in another language. When a translation is supplied, the original record must also be included. Translations must be officially certified by a translator or interpreter. All records should be mailed to: Admissions Department, Maharishi University of Management, 1000 North Fourth St., Fairfield, IA 52557, U.S.A.

• **English Proficiency**
  All applicants who are not native English speakers must submit official TOEFL iBT, IELTS Academic, or PTE English test scores. Students may register for the TOEFL and request that scores be forwarded to the University at the time of the test; or by writing to the Educational Testing service, Box 592, Princeton, New Jersey 08540; or by e-mailing the contact form at www.ets.org/toefl/contact?WT.ac=toeflhome_contactus_121127. Maharishi University of Management’s college code for this purpose is 4497. English Proficiency Scores:
  TOEFL iBT scores 90
  IELTS Academic: 6.5
  PTE: 58

• **Admissions Interview** — An interview with an admissions representative is a required part of the application process. This is done over the telephone or via Skype.

**INTERNATIONAL TRANSFER STUDENTS**

Maharishi University of Management welcomes qualified transfer students. For the number of credits that may be transferred by undergraduate and graduate students, the method for evaluating those credits, and residency requirements, please refer to “Transfer Students” in the “General Policies” section of this Catalog. All transfer approval must be completed within the student’s first semester at the University.
ADDITIONAL ADMISSIONS PROCEDURES FOR INTERNATIONAL APPLICANTS

Visa Procedures
Once the application for admission is approved, a University acceptance letter and a U.S. Immigration Service SEVIS I-20 form will be mailed to the applicant. A prospective international student should not make plans to enter the United States before obtaining their F-1 student visa. It will be necessary to present both a letter of acceptance and a SEVIS I-20 form at the U.S. Embassy/Consulate, when applying for an F-1 student visa, and again upon arrival into the United States, and finally, during registration at the University. If further documentation is needed in obtaining a student visa, please contact the Office of International Admissions. Guest students and online students do not receive a student visa.

Please note that the U.S. Immigration Service strongly discourages and usually disallows international students from entering the U.S. on a Visitor visa and then attempting to change status after arrival. The only exception to this rule would be to make clear at the Port of Entry that one is coming as a “Prospective Student” and ask that this particular designation be made on the I-94 record. Otherwise, an application for Change of Status from Visitor to Student will most certainly be denied. Furthermore, a Prospective Student is not allowed to register and enroll unless and until any Change of Status application is approved (a process that can take several months). Because of these strictures, the University has a policy of only registering students who have obtained the proper student visa.

Financial Statement
International students must provide evidence of financial ability to pursue a course of study at Maharishi University of Management before the letter of acceptance and the SEVIS I-20 form can be generated and mailed. Financial assistance is available for those who demonstrate academic promise, financial need, and a strong commitment to develop their full potential and the potential of their nations. Students must provide a letter from their bank to the Office of International Admissions verifying the availability of funds to meet their educational expenses for at least one academic year. Using this verification, the University can then issue a SEVIS I-20 form, which is needed to obtain a student visa. Guest students and online students do not have verify funds for their program cost.

Health Insurance
Due to the high cost of medical care in the U.S., all international on-campus students must purchase health insurance through the University at the time of registration.
Students are exempt from this requirement if they can show at registration that they have adequate coverage under their own insurance.

This health insurance requirement is based on our concern that our international students are (1) adequately covered in the event of accident or illness, (2) able to receive the most complete and up-to-date medical care available, and (3) not incurring large financial losses as a result of a medical emergency while in the United States.

**ADDITIONAL INFORMATION**

**FOR ALL APPLICANTS**

**Policies on the Practice of the Transcendental Meditation and TM-Sidhi Programs**

The Transcendental Meditation program is practiced by all University faculty and staff, as well as by all students. Many students, faculty, and staff have also learned the advanced Transcendental Meditation-Sidhi program. For the personal benefit of all students, faculty, and staff, these technologies are practiced separately of other programs or procedures. There are specific policies that support the practice of the Transcendental Meditation and TM-Sidhi programs. Each element of these technologies for the development of consciousness has been carefully structured to produce maximum benefit.

In order to ensure for everyone the integrity and effectiveness of the teaching and practice of the technologies of Maharishi Vedic Science, these technologies are practiced according to the instructions of qualified teachers recognized by Maharishi University of Management, and they are practiced separately of other programs and procedures.

**Drug, Alcohol, and Smoke-Free Environment**

Education at Maharishi University of Management is designed to help students become more creative, alert, and awake and to develop optimum health. Therefore the following points clearly outline the University’s policies on the use of tobacco, non-prescribed drugs, and alcohol:

- Tobacco products, non-prescribed drugs, and alcohol are not allowed on campus.
- Students are not allowed to be in the presence of others using non-prescribed drugs or alcohol on campus.
- The use of non-prescribed drugs is not allowed on or off campus.
- The use of alcohol off campus is illegal for students under the age of 21 and strongly discouraged for all students.
**Official Acceptance Required before Arriving on Campus**

Maharishi University of Management may defer admission or readmission of a student to any program if such deferral is warranted on the basis of the application or other information. It is very important that students do not come before receiving official acceptance and confirming their intention to accept admission into the University. International students must also have received their U.S. Immigration and Naturalization Service I-20 form from the Office of Admissions before coming to the University.

**READMISSION**

Students who have been away from the University for one semester or longer, or who have officially withdrawn from the University, or who have been suspended for three or more blocks must apply for readmission by submitting a new online application.

Online students who have not been enrolled for two semesters or longer must reapply and be accepted by the Office of Admissions before continuing their online studies.
FINANCIAL AID

All students are welcome to apply for financial aid. Most financial aid is awarded on the basis of financial need. Need is not considered when determining the qualification for admission. For need-based financial assistance, the Free Application for Federal Student Aid (FAFSA) is used for USA students to determine students’ financial need. For international students, the University uses its own scholarship application to determine financial need.

Maharishi University of Management offers a package of federal, state, and University financial assistance for U.S. citizens, and University scholarship for international students. For example, U.S. undergraduate students may be eligible for federal and state grants, as well as University scholarships, and federal student loans. U.S. graduate students and international students may qualify for some University scholarships covering part of the tuition.

Many U.S. students also qualify for Federal Work Study positions to help with the cost of books and supplies. Federal Work Study allows students to work at a part-time job at the University, usually after classes or on weekends. The average work-study job requires 4–5 hours of work per week.

CURRENT FINANCIAL AID PROGRAMS

Federal and State Grants
• Federal Pell Grant
• Federal Supplemental Educational Opportunity Grant
• Iowa Tuition Grant

University Scholarships
• Trustees’ Scholarship
• Graduate Assistantships
• Graduate Internships

Loans
• Federal Subsidized/Unsubsidized Loan
• Federal PLUS Loan
Other Forms of Aid

- Veterans' Benefits
- Iowa National Guard Educational Benefits
- Federal Work Study

FINANCIAL AID ELIGIBILITY

Students must be accepted to attend the University by Admissions, and be actively enrolled receiving academic credit each term toward seeking a degree to be eligible for financial aid. Once a student meets the academic requirements to complete that degree, financial aid eligibility ceases.

If you have any questions about financial aid, please write or call the Office of Financial Aid: (641) 472-1156, email: finaid@mum.edu.

PROGRAM CHARGES, 2019–20

Program types

Program charges are per semester (fall and spring) except for the following programs:

- Master’s Computer Science Professionals: http://www.mum.edu/tuition
- MBA Accounting Professionals: http://www.mum.edu/tuition
- MBA in SAP Finance Professionals: http://www.mum.edu/tuition
- Regenerative Organic Agriculture Certificate: http://www.mum.edu/tuition
- Non-Degree Guest Students: one course at a time, $500 per credit
- English as a Second Language training: http://www.mum.edu/tuition

Undergraduate Tuition Per Semester

Financial Aid is available for those who qualify, including need-based scholarship for the Full Time rate.

- Full Time (12 or more credits) $ 8,000
- Three Quarter Time (9 to 11.75 credits) $ 4,800
- Half Time (6 to 8.75 credits) $ 2,700
- Less than 6 credits per semester $ 500 per credit.

Master’s Degree Tuition Per Semester

- 12 or more credits, $14,500
- 6 to 11.75 credits
  - Maharishi Vedic Science and Reading the Vedic Literature, $2,700
  - Maharishi AyurVeda and Integrative Medicine, $3,300
  - MBA and other enrollment at 6 to 11.75 credits, $4,800
The above tuition rates are for full-time enrollment (six or more credits). Tuition for less than six credits is $500 per credit. Student budget for loan eligibility and enrollment reporting is half-time for 4 to 5.75 credits, and 1/4 time for less than 4 credits. Work or practicum credit is included, based on credits issued.

**PhD Tuition Per Semester**
- Entry Level $8,000
- Candidate Level $4,000
- Researcher Level $2,000

PhD enrollment is always full time, and charges per semester are not reduced for partial enrollment.

**Housing and meal charges per semester**

<table>
<thead>
<tr>
<th></th>
<th>Full Meals</th>
<th>Single Room</th>
<th>MSV Housing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Twelve or more weeks in a semester</td>
<td>$2,000</td>
<td>$1,700</td>
<td>$900 additional</td>
</tr>
<tr>
<td>Six to eleven weeks in a semester</td>
<td>$1,000</td>
<td>$850</td>
<td>$450 additional</td>
</tr>
</tbody>
</table>

Less than six weeks in a semester is $210 per week.

All students who live on campus receive a bundled package of housing and three meals per day, six days per week, and two meals (brunch and dinner) on Sunday. Meal charges are not available without housing charges. Off-campus students may buy discounted meal passes at the University Store.

Undergraduate students under 21 years of age are required to live in the residence halls on campus. Exceptions include legally married students, those with dependents, and graduate students. Students with exceptional circumstances, such as living with their parents in Fairfield, may petition Student Life for an exception. Students under age 21 who have lived on campus for one year and have a GPA of 3.0+ may also petition Student Life for an exception.

**Students moving off campus during a semester**

Students who move out of the residence halls after they have registered will not be eligible for a reduction in housing charges for that semester, except when charges must be reduced due to University Withdrawal.
Enrollment that mixes courses from different programs or program tracks

**Degree Program** (Undergraduate, Master’s, PhD) — A student may be enrolled as degree-seeking in only one degree program during any term. A student may include courses from a different program level with appropriate approvals. For example, if an undergraduate or PhD student adds a master’s level course in a term, the designated degree program for the term always remains the undergraduate or PhD program, no matter how many master’s course credits are taken that semester.

**Terms and Intersessions**

**Professional Programs** have two six-month terms. Fall starts mid-June and ends mid-December; spring starts mid-December and ends mid-June.

**All Other Programs**
The two standard semester terms are 18 weeks as defined in the published academic calendar. The January intersession is attached to the Spring semester. The Summer term is separate.

**Summer Term 2019**
Credits are designated under the separate summer term for all purposes, including enrollment status, Satisfactory Academic Progress, and all other term-based processes. Tuition is $500 per credit. Undergraduates will receive scholarship (and grants if available) to cover tuition. Housing and meals are $210 per week for on-campus students while in class. Six credits are required for half-time enrollment during the summer term.

**January Session 2020**
Credits earned for courses starting after the winter holiday break are session credits added onto, and part of, the standard spring semester. Tuition/Housing/Meals are charged in the same way all credits are charged for spring semester enrollment as a whole.

**Other charges**

- **Student Fees** of $265 per semester are allocated to their various purposes, with 36% going to technology infrastructure, 33% to the student wellness clinic, 19% to student activities, and 12% to student athletic facilities. Student Fees are not prorated for partial enrollment. Fees are not charged when enrollment is less than seven weeks in a semester, or if the entire semester is taken outside of Jefferson County, Iowa.

- **Application Fees**: Applicants are asked to submit a nonrefundable application processing fee of $20.
• **International Students Health Insurance:** International students are charged an estimated $1,272 per semester for six months of required health insurance unless otherwise insured (proof of other insurance required within two weeks of initial semester registration). Health insurance is not prorated for partial enrollment, except for three-month increments (approximately $636) as long as no claims have been incurred. Insurance amounts listed on the Financial Aid Award Letter are estimated until the rates are finalized with the insurance provider.

• **Transcendental Meditation Technique Tuition:** Undergraduate students and U.S. graduate students will receive a scholarship from the David Lynch Foundation covering the tuition of the University’s Transcendental Meditation course. International graduate students will receive a loan for the $480 Transcendental Meditation course tuition. Prospective students who receive instruction in the Transcendental Meditation technique before enrollment, as part of their admissions process, may be eligible for a reimbursement of the cost of the instruction after they enroll at the University. This reimbursement from the David Lynch Foundation is obtained through Admissions.

• **TM-Sidhi Course:** Students may receive four academic credits from Maharishi University of Management for the TM-Sidhi course taught by Maharishi Foundation in coordination with MUM through a contractual agreement. The David Lynch Foundation has announced a scholarship to reduce the cost of the course from $2,500 to $1,250 for Maharishi University of Management students. An additional scholarship of $750, reducing the tuition to $500, is also available to students who meet specific criteria specified by the Maharishi Foundation. There is an additional cost of $950 for the final two weeks in residence.

**Enrollment status and grade level progression**

Students with federal aid have their enrollment status, academic program, length of program, and grade level reported monthly to the National Student Loan Data Service. For undergraduates, 32 credits is designated for grade level progression (33–64 credits is second-year undergraduate grade level).

**Other estimated costs of attendance**

**Day Programs**

• Books, Equipment, and Supplies: $1,000 per year

• Personal Expenses and Transportation: $3,800 per year

• Off-Campus Housing and Meals: $7,400 per year
Evening/Weekend and Online Programs

• Book and Supplies:
  $200–$500 per academic year
• Personal Expenses and Transportation:
  $2,000 per year
• Off-Campus Housing and Meals
  $6,000 per year

These other estimated costs of attendance are generally applicable to full-time students. Half-time student estimated costs are generally 50% of the amounts listed above.

Payment

Semester payment is due by August 1 for fall semester and by January 1 for spring semester. See the payment page. https://students.mum.edu/payment

Payment Procedure

Payment may be made by Visa, MasterCard, Discover, e-check from domestic accounts, and peer-Transfer from foreign accounts. Go to the payment page. https://students.mum.edu/payment

Other points regarding charges

Students with a remaining balance due to the University should pay it before leaving the University. In case students are requested to withdraw from the University because of poor academic standing or disciplinary reasons, reductions in charges are the same as for other withdrawals from the University. An appeals process for review of specific situations is available by filing a Financial Review Board petition form, available at the Enrollment Center.

Study abroad and courses delivered by other institutions under contractual agreement

U.S. Students eligible for federal aid will be assisted in obtaining federal aid to attend eligible study-abroad programs. Only $500 of University tuition will be charged when the other institution grants academic credit via an approved transcript. University tuition (see above) is charged for any other course taken away from Fairfield, including internships, fieldwork, thesis, projects, MVS special studies, and other studies, even when the source of coursework is not primarily taught by University faculty.
Non-degree / guest students
Special students who are not seeking a degree may take courses, upon approval of an
application, at the tuition rate of $500 per credit. MUM housing and meals cost $210 per
week. Financial aid, including scholarship, is not available. A maximum of two courses
(8 credits) can be transferred to a degree program. A student who withdraws after the first
day of the course will be charged a minimum 50% of the course tuition, and after 25% of
the course, there is no refund.

Information for recipients of grants
In the event that available state funds are insufficient to pay the full amount of each
approved Iowa Tuition Grant, the Iowa College Student Aid Commission has the
authority to administratively reduce the award. State awards may include Federal
LEAP/GAP funds.

Military deployment and Veterans Benefits
In accordance with Section 103 of the Veterans Benefits and Transition Act of 2018,
MUM assures it will not impose any penalty including 1) the assessment of late fees; 2)
the denial of access to classes; 3) the denial of access to libraries or other institutional
facilities and /or 4) the requirements that a Chapter 31 or Chapter 33 recipient borrow
additional funds to cover the individual's inability to meet his or her financial obligations
to MUM due to the delayed disbursement of a payment by the US Department of
Veterans Affairs.

Maharishi University of Management will offer not less than the following options to a
student who is a member, or the spouse of a member if the member has a dependent
child, of the national guard or reserve forces of the United States and who is ordered to
national guard duty or federal active duty:

(a) Withdraw from the student’s entire registration and receive a full refund of tuition and
mandatory fees.
(b) Make arrangements with the student's instructors for course grades, or for
incompletes that shall be completed by the student at a later date. If such arrangements
are made, the student’s registration shall remain intact and tuition and mandatory fees
shall be assessed for the courses in full.
(c) Make arrangements with only some of the student’s instructors for grades, or for
incompletes that shall be completed by the student at a later date. If such arrangements
are made, the registration for those courses shall remain intact and tuition and mandatory
fees shall be assessed for those courses. Any course for which arrangements cannot be
made for grades or incompletes shall be considered dropped and the tuition and
mandatory fees for the course refunded.
University scholarship
The University reserves the right to increase or decrease University Scholarship at any
time, for any reason, for any individual. Such a change in scholarship level (up or down)
may be reviewed by petition from the student.

Reductions in charges and financial aid
This section outlines reductions due to semester withdrawal when scheduled courses are
not completed or not attended.

Professionals program students are exempt from this policy because their charges are
adjusted according to their program agreement.

The semester charges for tuition, housing, and meals are reduced or recalculated (as is
financial aid, including federal aid) in proportion to the time attended, under the
following conditions:

A student ceases to attend a course before completing that course, and there is no written
confirmation of the student’s intent to attend an additional course that semester. Or a
student fails to begin attendance in a course for which the student was scheduled where
there was no prior notification about changing the semester enrollment agreement.

The Registrar’s Office monitors student attendance through weekly reports by professors
and course administrators for all students who are scheduled to attend a course and are
not present. Both the professor or course administrator and the Registrar official will
attempt to contact the student about the student’s intent for that course and for the rest of
that semester. Unless the student provides written intent to continue to attend a course
that semester, the student’s status becomes “officially withdrawn”:

- The last date of attendance is the official withdrawal date.
- The last date of attendance must be documented by the University from its own
  records of any academic participation (a student’s statement of intent to withdraw
  or about a last date of attendance is not sufficient).
- The professor may specify the last date of class attendance in writing or via email
to the Registrar official.

The Registrar official provides documentation via a Course Withdrawal Form, along with
any relevant communication with the student and professor, to the Director of Financial
Aid for the withdrawal calculation, i.e., any potential reductions in charges and financial
aid, including federal aid:
• The Director of Financial Aid determines the percentage of time completed, i.e., the number of days in the enrollment period divided by the number of days completed.

• The number of days in the enrollment period is determined by the student’s semester agreement, which lists the semester credits, dates, and charges and itemizes financial aid (including federal aid) for the semester.

• The enrollment period is from the first date of the first class that semester to the last date of the last class, as per that semester agreement, not including any scheduled breaks of five or more days.

• The days completed is determined as the number of calendar days from the start of the first course for that student in that semester to the last day completed (see example below for circumstances when there is more than one block when a student stops, then starts again in a later block, then stops again).

• The semester charges (and financial aid, including federal aid; see below) are recalculated to be the percentage of time attended multiplied by the original semester charges (and financial aid; see below). After 60% there is no reduction.

**Enrollment Period**

At the time of withdrawal from a course, if there is written confirmation of the student’s intent to take additional courses that semester, there is no reduction in charges (the enrollment period remains the same, even if the student’s intended future course attendance skips some blocks before attendance resumes).

The enrollment period does not change or amend the charges or the financial aid unless the student notifies the Registrar of a reduced or increased class schedule before the withdrawal date (or, for a completed block, by the last date of that course that block). This change would represent a reset of semester charges and financial aid, including federal aid, based on the new credit load (full time, \(\frac{3}{4}\) time, \(\frac{1}{2}\) time, \(\frac{1}{4}\) time), with a new period of enrollment.

**Days Completed**

If the student does not return for the additional course(s), the percent completed is calculated using the withdrawal date of the earlier partially attended course. If a student returns and again withdraws from a future course, the days in the length of the enrollment period remain as originally scheduled. The days completed are from the first date of the enrollment period to the first withdrawal date and then again from the next attended block course starting date to the second withdrawal date.

Example: Student enrolls for 30-day blocks for one semester with no scheduled breaks of five or more days: 120 days in the semester. The student completes 20 days in the first
block then stops and provides written confirmation of intent to skip the second block and attend the third block. After 10 days of the third block the student stops participating and provides no confirmation of intent to participate in the third block. The student attended 20 days in the first block and 10 days in the third block for a total of 30 days completed out of 120 day semester, or 25% of the semester.

Prior to Calculation of Reductions Due to Withdrawal

Reductions in Federal Pell Grants
Prior to the calculation of reduction of charges (or of financial aid, including federal aid), if a student has a Federal Pell Grant, it must be reduced to the earned amount as of the withdrawal point, based on the number of credits attempted (¾ time, ½ time, or less than half time).

Reductions in University Charges, Scholarship, and State Grants
The calculated percent completed is applied to University charges and scholarship as they exist in the University’s accounting system at the time of withdrawal for the applicable enrollment period. The result is the remaining charges and scholarship and state grants, after withdrawal.

Reductions and Return of Federal Student Aid
The total amount of semester federal aid (except Federal Work Study) that was disbursed or could have been disbursed (if all the requirements had been met) multiplied by the percent completed is equal to the earned federal aid, and the remainder is unearned.

If the earned federal aid was not disbursed at the time of withdrawal but could have been disbursed because all the requirements had been met, the University will contact the student to provide the opportunity for the student to approve the disbursement of the earned federal loans.

The quantity of disbursed federal aid that the University must reduce and return to the U.S. Department of Education is the lesser of the unearned federal aid vs. the unearned charges (the total amount of charges that were reduced). This reduction and return is prioritized as follows:

- Direct Unsubsidized first, then Direct Subsidized
- Direct PLUS loans next;
- Federal grants last: Pell first, then Federal Supplemental Educational Opportunity Grant (FSEOG)
This reduction may result in a balance due to the University by the student (see Example One below).
If the student received a refund of federal student loans for personal expenses, the student is eligible to keep and repay those loan funds under the terms of the loan only if the disbursed unearned federal aid is less than the amount of federal aid returned by the college.

The University will provide the student with a new award letter showing the recalculated charges and aid, including recalculated federal aid. The University will explain the subsequent actions required by the student.

**Example One: Undergraduate Off Campus with Federal Aid**

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$8,000</td>
<td>Tuition for one semester, full-time off-campus student</td>
</tr>
<tr>
<td>$13,000</td>
<td>Financial Aid:</td>
</tr>
<tr>
<td></td>
<td>$5,000 University Scholarship</td>
</tr>
<tr>
<td></td>
<td>$2,500 Federal Pell Grant</td>
</tr>
<tr>
<td></td>
<td>$500 Federal SEO Grant</td>
</tr>
<tr>
<td></td>
<td>$2,000 Federal Subsidized Student Loans</td>
</tr>
<tr>
<td></td>
<td>$3,000 Federal Unsubsidized Student Loan</td>
</tr>
<tr>
<td>$5,000</td>
<td>Projected Semester Cash Refund for Living Expenses</td>
</tr>
</tbody>
</table>

This student received $1,500 of the cash refund after the third week of class and then ceased attending after the fourth week of class. The student had attended classes totaling 6 credits (½ time). The Pell grant is reduced to 50% for ½ earned attendance (from $2,500 to $1,250).

The official withdrawal date is the last date of attendance—in this example, the 28th day of the semester, where the enrollment period is 118 days, for a total attendance percentage of 24% in time. The charges and aid are reduced and recalculated to the following amounts after withdrawal:

<table>
<thead>
<tr>
<th></th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1,920</td>
<td>Remaining Tuition (24% of $8,000)</td>
</tr>
<tr>
<td>($1,200)</td>
<td>Remaining Scholarship (24% of $5,000)</td>
</tr>
<tr>
<td>($1,620)</td>
<td>Remaining Federal Aid (24% of $6,750 total federal aid)</td>
</tr>
<tr>
<td>($1,250 Pell, $370 FSEO Grant, $0 loans)</td>
<td></td>
</tr>
</tbody>
</table>

The lesser of the unearned charges $6,080 and the unearned federal aid
$5,130 is the amount the University must reduce and repay the US Department of Education. The remaining federal aid is $1,620.

$900  Recalculated Semester Refund Eligibility
The student already received $1,500 and thus must return $600 cash to the University. The University will not allow the student to re-enroll and will not release a transcript until this outstanding balance has been paid.

Example Two: Online Master’s Degree with Federal Aid

$ 6,000 Tuition for one semester
$10,000 Federal Student Loan
$ 4,000 Semester Cash Refund for Living Expenses

This student received a $4,000 cash refund after the third week of class and then ceased attending after the fourth week of class, having completed 24% of the days in the enrollment period. The charges and aid are reduced and recalculated to the following amounts after withdrawal:

$1,440  Remaining Tuition (24% of $6,000)

($5,440)  Remaining Federal Loan
($10,000 disbursed loan minus the amount the University must return to the US Department of Education — the lesser of unearned charges $4,560 and unearned federal loan $5,600 (24% of $10,000 federal student loan = $2,400 earned and $5,600 unearned)

$4,000  Federal Student Loan to be kept by student for personal expenses. Before withdrawal, the student had borrowed $10,000 for the semester. After withdrawal, the resulting federal student loan is $5,440 to be repaid by the student under the terms of the loan.

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Payman Salek  
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• MFA, California College of the Arts

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Neal M. Stevens
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Anitra Mishra
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Manohar Palakurthi
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Daniel Nearing
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Hilary Nelson
Visiting Assistant Professor of Art • BFA, Maharishi University of Management • MFA, University of Iowa

Yashaswini Sharma
Visiting Professor of Regenerative Organic Agriculture • BSc, MSc, University of Agricultural Sciences, Dharwad, Karnataka • PhD, University of Agricultural Sciences, Bengaluru
# ACADEMIC CALENDAR 2019-2020

## 2019 SUMMER TERM

July (Block 7) for continuing students  
Begins Monday, June 24, Ends Thursday, Aug, 15

## FALL 2019 SEMESTER

### Arrival and Registration

- **Arrival Day for New Int’l Students**  
  Sunday, August 11, and Monday, August 12
- **Arrival Day for New U.S. Students**  
  Monday, August 12, and Tuesday, August 13
- **New Student Orientation**  
  Monday, August 12–Sunday, August 18
- **Arrival Day for Continuing Students**  
  Friday, August 16, or Saturday, August 17

### FALL REGISTRATION

- **All New and Readmitted Students**  
  Wednesday, August 14
- **All Continuing Students**  
  Friday, August 16, and Saturday, August 17

### INTRODUCTORY COURSES

- **New Undergraduates**  
  Monday, August 19 to Thursday, September 26
- **New Graduate Students**  
  Monday, August 19 to date that varies by program

## FALL COURSES

<table>
<thead>
<tr>
<th>Fall Courses and Important Dates</th>
<th>Begins</th>
<th>Ends</th>
</tr>
</thead>
<tbody>
<tr>
<td>August (Block 8)</td>
<td>Monday, Aug. 19</td>
<td>Friday, Aug. 30*</td>
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<tr>
<td>September (Block 9)</td>
<td>Monday, Sept. 2</td>
<td>Thursday, Sept. 26</td>
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<tr>
<td>October (Block 10)</td>
<td>Monday, Sept. 30</td>
<td>Thursday, Oct. 24</td>
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<tr>
<td>November (Block 11)</td>
<td>Monday, Oct. 28</td>
<td>Thursday, Nov. 21</td>
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<tr>
<td><strong>Last day to apply for fall graduation</strong></td>
<td><strong>Friday, Nov. 1</strong></td>
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<tr>
<td><strong>Thanksgiving Holiday</strong></td>
<td><strong>Wednesday, Nov. 27</strong></td>
<td><strong>Sunday, Dec. 1</strong></td>
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<tr>
<td>December (Block 12)</td>
<td>Monday, Nov. 25</td>
<td>Saturday, Dec. 21*</td>
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<tr>
<td><strong>Fall 2019 Graduation Date (No ceremony)</strong></td>
<td><strong>Saturday, Dec. 21</strong></td>
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<tr>
<td><strong>Winter Holiday (Residence halls closed)</strong></td>
<td><strong>Saturday, Dec. 21</strong></td>
<td><strong>Friday, Jan. 10</strong></td>
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<tr>
<td><strong>Residence halls close for winter holiday</strong></td>
<td><strong>Saturday, Dec. 21</strong></td>
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2019/20  
449
WINTER SESSION

JANUARY (Block 1) Monday, Jan. 13 – Thursday, Feb. 6
Registration is Friday, Jan. 10, or Saturday, Jan. 11
First block of spring semester for continuing students

SPRING 2020 SEMESTER

Arrival and Registration

Arrival Day for New Int’l Students Sunday, Feb. 2–3
Arrival Day for New U.S. Students Monday & Tuesday, Feb. 3–4
New Student Orientation Thursday–Sunday, Feb. 6–9
Arrival Day for Continuing Students Friday, Feb. 7

SPRING REGISTRATION

• All New and Readmitted Students Wednesday, February 5
• All Continuing Students Friday & Saturday, Feb. 7–8

INTRODUCTORY COURSES

• New Undergraduates Monday, February 10, to Thursday, March 19
• New Graduate Students Monday, February 10, to a date that varies by program

SPRING COURSES

<table>
<thead>
<tr>
<th>Spring Courses and Important Dates</th>
<th>Begins</th>
<th>Ends</th>
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<tbody>
<tr>
<td>February (Block 2)</td>
<td>Monday, Feb. 10</td>
<td>Friday, Feb. 21*</td>
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<tr>
<td>March (Block 3)</td>
<td>Monday, Feb. 24</td>
<td>Thursday, March 19</td>
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<tr>
<td>Spring Break</td>
<td>*Friday, March 20</td>
<td>Sunday, March 29</td>
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<tr>
<td>April (Block 4)</td>
<td>Monday, March 30</td>
<td>Thursday, April 23</td>
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<tr>
<td>Last day to apply for spring graduation</td>
<td>Wednesday, April 15</td>
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<tr>
<td>May (Block 5)</td>
<td>Monday, April 27</td>
<td>Thursday, May 21</td>
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<tr>
<td>June (Block 6)</td>
<td>Monday, May 25</td>
<td>Thursday, June 18</td>
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<tr>
<td>Commencement</td>
<td>Saturday, June 20, 1:00 p.m.</td>
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<tr>
<td>Residence Halls Close for Summer</td>
<td>*Saturday, June 20, 5:00 p.m. **</td>
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<tr>
<td>Summer Break</td>
<td>*Friday, June 19 to Thursday, August 13</td>
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</tbody>
</table>

SUMMER TERM

| 2020 Summer term July (block 7) | Monday, June 22 | Thursday, Aug. 13 |

*August and February blocks end at noon. All other blocks end at 3:15 p.m. Some programs may have class or holidays at times other than those listed here. Please consult your Program Director for the calendar appropriate to your program.

** Graduating students may remain in residence halls until Monday, June 22, noon.