MAHARISHI UNIVERSITY OF MANAGEMENT

CATALOG

2018–2019

Undergraduate and Graduate Programs

Consciousness-Based Education

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

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Maharishi University of Management
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.
ABOUT THE UNIVERSITY


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 ScienceSM. 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.
At Maharishi University of Management students gain the knowledge and skills they need for professional success, personal fulfillment, and responsible citizenship in a rapidly changing world.

All undergraduates acquire eight Essential Learning Outcomes by the time they graduate. They have abundant opportunities to exercise and strengthen these skills throughout their time here, building the foundation for a successful professional and personal life.

Our students have a unique advantage in developing these skills, namely the inner growth they gain through Consciousness-Based education. By directly experiencing the field of pure consciousness, pure creative intelligence — the source of all knowledge, total natural law — students grow in creativity and intelligence, happiness and peace. They feel increasingly at home with all knowledge and enjoy growing support of natural law for fulfilling their own desires and creating a better world.

**ESSENTIAL LEARNING OUTCOMES**

- 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

**SPECIAL FEATURES OF THE CURRICULUM**

- **Development of Consciousness**, which includes the required twice-daily practice of the Transcendental Meditation program or the Transcendental Meditation and TM-Sidhi programs. Students will learn the Transcendental Meditation technique as part of their first course if they have not learned before arriving.

- **Required general education courses**, in the Science and Technology of Consciousness, Physiology is Consciousness, Physics and Consciousness, mathematics, writing, and Forest Academies.

- **A health education program** that includes a required two-credit course that introduces students to the principles of proper rest, nutrition, and physical fitness.

- **Forest Academies**, the first two weeks of each semester, which provide opportunities for more extended practice of the Transcendental Meditation technique, and for those qualified, the TM-Sidhi program. The Forest Academies also provide the opportunity for exploring the application of Maharishi Vedic ScienceSM to areas ranging from the arts to the sciences.

The specific credit requirements for all these programs are listed in Academic Policies section of the Catalog.

**Critical and Creative Thinking Seminars**

A special feature of the general education at the University is an emphasis on critical and creative thinking:

- **Critical thinking** refers to the habit of analyzing reasons given for a conclusion, including evaluating evidence in its favor. It also refers to an attitude of being open-minded and fair in examining arguments one does not agree with.

- **Creative thinking** refers to the ability to envision alternate explanations for conclusions, so that all sides of an argument can be examined. It also applies to the ability to come up with unique solutions to problems — solutions that may involve, for example, lateral thinking or risk taking.

Developing creative and critical thinking abilities helps students during their time as a student and leads to greater success after they graduate. Therefore, an important part of the general education curriculum at Maharishi University of Management is a two-course
program that all entering students take to promote the habit and skills associated with deep thinking.

1. The Science and Technology of Consciousness (STC) course — Following instruction in the Transcendental Meditation technique, this is the first course every new undergraduate student takes at the University. This course introduces student to three fundamental sources of knowledge that can be used together to evaluate any idea: personal experience, scientific reasoning, and traditional wisdom. On the basis of evidence from all three sources, a consciousness-based framework is introduced as a new way of viewing the world and addressing its challenges. This course is a prerequisite to all other courses at the University, though students who do not pass STC 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.

2. Critical and Creative Thinking seminars (CCTS) — Students also 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 seminar in any subject to satisfy this general education requirement. Students learn how to evaluate and formulate a position based on an open- and fair-minded analysis of the evidence.

FIRST SEMESTER LEARNING COMMUNITY

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 101 Consciousness and the Challenges of the 21st Century
Students enrolled in the first semester learning community will address a challenge faced in the local community and design a project to address that challenge. Working on this project will entail learning writing, speaking, and presentation skills. The project will involve creativity, problem solving, critical thinking, and teamwork and leadership, while promoting local and global citizenship, health, and development of consciousness. (Note: students who complete this learning community and who demonstrate competence in these skills will not have to take the required courses in Composition, Mathematics, Creative and Critical Thinking, Health-Related Fitness, and the Science and Technology of Consciousness.) Rather than a letter grade, students completing the program will receive a narrative evaluation — a letter from the faculty summarizing what they’ve achieved, as well as their strengths and areas for improvement. The student’s transcript will show a Pass or No Pass for the course. Students will also receive a certificate of completion. (14–18 credits, depending on whether students complete the full semester) Prerequisites: A college-level composition course or equivalent demonstration of 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 TM and TM-Sidhi practice — 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. (Maharishi School graduates enroll in STC 109.) 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.
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 3-4 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.

STC 109 Science and Technology of Consciousness: Maharishi School Version
In this seminar, graduates of Maharishi School study fundamental principles and themes from Maharishi Vedic Science. Students view lectures by Maharishi, and write papers and give presentations on the topics presented. This course includes extensive reading of the Vedic Literature in Sanskrit, discussion of advanced concepts from selected readings and videotapes, and extended development of consciousness for deeper experiences. As part of this course, students participate in a 3-4 day base camp that focuses on team building, group processes, and leadership skills. (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 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)

**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 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)
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)

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)

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)

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 be 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.

**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)

**FOR 375 Introduction to the Bachelor’s of Fine Arts in Creative and Professional Writing**
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 three 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's 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. (2 credits)

**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 404 Total Knowledge
This course presents a unique and comprehensive vision of Total Knowledge, taking the awareness from infinity to a point and back again. This course was developed under Maharishi’s direct guidance. The course makes advanced aspects of knowledge from Maharishi accessible to everyone, presenting an integrated framework of the unmanifest and all its manifestations. It provides a unique understanding and experience of Wholeness, Totality, Brahm, and includes rare tapes of Maharishi. This course entails a two-week World Peace Assembly. (2 credits) Prerequisite: open to those who have learned the TM-Sidhi program

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 Rāmāyana), 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 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)

FOR 414 Becoming a Professional Human Being
Whether we work for ourselves or lead a small team or an entire organization, we are the first beneficiaries of everything we think, do, and say. It’s not what happens to us; it’s what happens in us. Since we spend about 60–70% of our lives on the job, this course gives us an opportunity to examine how our approach to our work can be adjusted during these stressful times. (2 credits)

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)

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)

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)

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 422 Human Relations in a Diverse Society
This course develops an awareness of and appreciation for the values, life styles, history, and contributions of various identifiable subgroups in our society. Activities and discussions will help students recognize and deal with dehumanizing biases such as sexism, racism, prejudice, and discrimination and become aware of the impact that such biases have on interpersonal relations. (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

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) Prerequisite: Male spectrum only

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 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 Veda—Music: 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 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 Vāstu 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 Vāstu 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 Vāstu 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)

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)

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)
FOR 496 World Peace Assembly (men)
In this Forest Academy, students participate in a World Peace Assembly with the Maharishi Purusha 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 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 506 Enhanced Performance Technologies for The Computer Professional
This first course for Computer Professionals students is specifically designed to establish the basis of how one can become a top performing computer science professional. The course is rooted in the practice of the Transcendental Meditation technique, which leads to fulfillment of one’s true potential. Students will learn about the benefits of Transcendental Meditation, including the ability to solve complex problems by superior mental functioning enhancing creativity and “out of the box” thinking. The course will focus upon the principles that underpin peak performance in activity by developing an optimal mix of rest and activity. Students will develop and experience an ideal daily routine that supports success in life.

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 their 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) Prerequisite: S. Africa, Neotel MBA students only

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 Ethics of Enlightened Leaders**
**FOR 610B Ethics of Enlightened Leaders**
This course presents a Consciousness-Based perspective on ethics for leaders and engages 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.

**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

**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, MA, Associate Chair, Associate Professor of Humanities
• Dale Divoky, BFA, Associate Professor of Art
• Sean Downey, MFA, Associate Professor of Art
• Gyan Shrosbree, MFA, Assistant Professor of Art
• Gillian Brown, MFA, Adjunct 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, 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**

- 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
- Minor in Art
- 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.

Photography/Video/Digital Media

• Develop fundamental photographic skills in well-equipped facilities, which include group B/W darkroom, photo studio, film processing room, and advanced color darkroom. Students can also learn the basic principles and techniques of digital commercial photography.
• Integrate traditional photography methods (aperture, shutter speed, focus, film speed) with new possibilities presented by using computer technologies to explore layering, adding text, hand drawing, or other digital manipulation.
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 recommends 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, 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 art history and art criticism courses:
• FA 203 Understanding Art (4 credits)
• FA 381 Prehistoric to Medieval Art (4 credits)
• FA 382 Renaissance to Contemporary Art (4 credits)
• FA 384 World 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 Media and Communications, 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 coursework. 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 art history and art criticism courses, 4 credits of which must be on modern art (FA 385 or FA 386):
• FA 203 Understanding Art
• FA 381 Prehistoric to Medieval Art
• FA 382 Renaissance to Contemporary Art
• FA 384 World Art (4 credits)
• FA 385 Modern Art, 1880-1945
• FA 386 Modern and Contemporary Art, 1945-2000

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 Media and Communications 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 Media and Communications 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 4 credits of one of these courses:
- FA 203 Understanding Art
- FA 381 Prehistoric to Medieval Art
- FA 382 Renaissance to Contemporary Art
• FA 385 Modern Art, 1880-1945
• FA 386 Modern and Contemporary Art, 1945-2000

plus 12 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 the University of Iowa, the University of Wisconsin, Penn State, 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)

Plus, 22 credits of:
- FA 575 Advanced Contemporary Studio

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, Vigée-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 in Media and Myth—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 reflecting the transformation of consciousness. We will explore these questions: What is the philosopher's quest? What can modern psychology reveal about the mind? How and why do archetypes transform consciousness? How can we apply ancient archetypes to modern life? Textbook and materials fee: $30 (4 credits) Prerequisites: STC 108, taken during students’ first semester, or consent of the Department faculty

**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 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 302 Drawing 2 — Drawing from Within: Exploring New Materials and Possibilities for Self-Expression
Students learn to use the power of drawing to convey a story, thus revealing in a visual narrative the sequential unfoldment of consciousness. Students engage the fundamental principles of drawing while introducing a variety of methods and materials; this sustains aesthetic unity while encouraging diversity in the discovery process and the resulting image. Taught in an open studio situation, the course allows the teacher to address both the general needs of the group and the specific needs of the individual student to advance in the experience of drawing as a means of self-expression. Materials fee: $35 (4 credits)
Prerequisite: FA 301

FA 304 Drawing Studio: Exploring Alternate Viewpoints of Consciousness
Students explore drawing with an emphasis on process, and its result, as a response to nature and the environment. Different applied viewpoints may include: illustration, graphics, animation, architecture, site-specific sculpture, industrial design, painting, and sculpture. The theme of the course depends on the instructor. Materials fee: approximately $75 which includes field trips (4 credits) Prerequisites: at least two of the following courses: FA 205, FA 301, FA 302, FA 311, FA 312.

FA 308 Screenprinting: Exploring 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 drawn, painted, collaged, printed and photographed images. Different applied viewpoints may include: illustration, graphic design, painting, sculpture, and ceramics. Materials fee:
approximately $30 (4 credits) Prerequisites: one of these courses: FA 205, 301, 304, 311, 331, 361 or consent of the instructor.

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) Prerequisite: a previous art course and consent of the instructor.

FA 312 Painting 2: Growth of the Artist through Refinement of Perception and the Expansion of Flexibility, Subtlety, Expression, Spontaneity, and Evenness by Means of the Brush
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) Prerequisites: a previous art course and consent of the instructor.

FA 315 Painting 1 & 3: Growth of the Artist through Refinement of Perception and the Expansion of the Methods and Materials of Painting
Students at different skill levels are in the same course but are given different assignments and projects to appropriately develop their formal and technical skills, guided by the faculty member. Students also gain a conceptual and critical understanding of the language of painting as preparation for independent studio work. (4 credits)

FA 316 Painting 3: Growth of the Artist through Refinement of Perception and the Expansion of the Methods and Materials of Painting
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) Prerequisites: a previous art course and consent of the instructor.

FA 317 Painting Studio: Exploring Alternate Viewpoints of Consciousness
Students working at intermediate and advanced levels in painting and drawing develop greater range and depth in their experience and understanding of the language of painting and drawing. Faculty and peer interaction is structured to support each student’s development through studio directives, critiques and exposure to painting traditions as well as contemporary painters and their processes. No lab fee, students are responsible for their own materials. (4 credits) Prerequisites: FA 301 and FA 311 or consent of the instructor.

FA 331 Photography 1 — Capturing Moments of Light: Learning the Essentials of the Darkroom and Appreciating Photography as a Tool for Refined Artistic Expression
Students learn to use the photographic medium as a tool for exploring and expressing the finest values of awareness. Students develop their work by learning basic camera techniques and darkroom procedures, while they are also introduced to a broad range of fine art photography. Students are provided with a 35mm camera. May be repeated for credit (with more advanced projects) 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. Lab fee: $150–$200 (4 credits)

FA 340 Ceramics Studio: Exploring Alternate Viewpoints of Consciousness
Students at intermediate and advanced levels in ceramics will increase their studio skills related to forming, understanding glazes and other surface possibilities, and 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. Students are exposed to the traditions and history of ceramics that continue to emerge worldwide. Lab Fee $55 (4 credits) Prerequisite: FA 341; suggested are FA 302, FA 311

FA 341 Ceramics 1 — Shaping the Unmanifest: Clay Forming, Glazing and Firing through Handbuilding Methods
Students learn the entire process of ceramics from making clay to firing pottery, providing them with the basic skills necessary to express consciousness in matter in this medium. Topics include: addressing the vessel with handbuilding methods such as pinch,
coil and slab construction; basic glazing methods; earthenware, stoneware, and raku firing methods; examples from the history of ceramics. Lab fee: $45 (4 credits)

**FA 342 Ceramics 2 — Shaping the Unmanifest: Throwing Pottery Forms on the Wheel**

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, consciousness and matter, in the process of creation. This intensive course focuses on establishing the student’s basic wheelthrowing skills with simple forms. **Topics include:** addressing form, glazing and function in wheelwork. Lab fee: $45 (4 credits) **Prerequisite:** FA341 or consent of the instructor

**FA 343 Ceramics 3 — Shaping the Unmanifest: Integration of Surface and Form through Enlivening Color and Pattern**

The integration of surface and form is a further development of the connection of inner and outer aspects of the ceramic form. Students continue to develop and integrate handbuilding and wheelthrowing methods of forming. **Topics include:** specific focus on exploring glaze, and surface possibilities such as drawing, color, texture, and their relation to the aesthetic and functional components of ceramics; examples from the history of ceramics. Lab fee: $45 (4 credits) **Prerequisites:** FA 341 and FA 342 or consent of the instructor

**FA 351 Sculpture 1 — Bas Relief: Breathing Life into Matter**

By exploring organic forms and creating designs from imagination, students make original sculptural surfaces that emerge from a two-dimensional plane. Exercises that expand the capacity to envision and create give students a deeper appreciation of the nature, creation, and function of sculpture, and thus the opportunity to express the fundamental laws that structure form in the natural world. **Topics include:** low, middle and high relief; organizing principles of two and three-dimensional design (balance, rhythm, economy, etc.); light and shadow; transforming clay reliefs into plaster reliefs; the history of relief sculpture. Materials: paper/cardboard, clay and plaster. Materials fee: $40 (4 credits)

**FA 352 Portrait Sculpture: Mirroring the Self**

Students continue the exploration and expression of form on a more personal level — they have the opportunity to mirror the different layers of their own consciousness in lifelike self-portraits. Students experience the controlled creation and evolution of their portrait as they sculpt in clay, transform the portrait into plaster, and cast the finished work in porcelain. **Topics include:** drawing the portrait (contour and tonal); sculpting the portrait; working from observation; organizing principles of three-dimensional design; proportion;
form relationships; making plaster molds; slip casting; photographing sculpture; and the history of portrait sculpture. Materials: clay, plaster, and porcelain slip (liquid clay). Materials fee: $40 (4 credits) Prerequisite: FA 351

**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) Prerequisites: FA 351 and FA 352

**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 4-5 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 384 World Art, Past and Present: Exploring Art that Transcends Time and Place by Embodying the Wholeness of Life
Explore glorious traditions and contemporary expressions of world art from Indian, Chinese, Islamic, African, and Native American cultures. In the process gain familiarity with major world cultures, which is valuable in today's interconnected global society. We will discover how art mirrors both unique cultural values and universal values such as the wholeness of life in higher states of consciousness. We will analyze how world art continues to inspire modern artists. We will explore these questions: How are the world views of traditional cultures and the modern west fundamentally different? What is the cultural impact of contemporary world artists? What are the functions of sacred art? How are forces of nature embodied in Indian art, Taoist and Buddhist art, Islamic architecture, African masks, and Native American art? A highlight of the course is a field trip to a major art center like Chicago. Field trip fee: $250.

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. 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. 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 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 470 Contemporary Art and Criticism Seminar: Deepening Artistic Experience and Intellectual Understanding for Creative Growth

Students examine the vocation, role, and responsibility of the contemporary artist and art critic in the light of their own artistic aspirations. This seminar focuses primarily on contemporary art and art criticism to develop the integration of intellectual understanding and studio practice. The concentrated experience of reading and writing about art cultures the habit of going more deeply into the substance of works of art, which nurtures the ability to more clearly apply and realize the highest values of visual expression. A highlight of the course is a field trip to a major art center, such as Chicago or New York. Field trip fee: $250–300 or more (4 credits) Prerequisite: BFA student or consent of the instructor

FA 471 Intermediate Studio in Painting and Drawing: Finding a Personal Voice in the Language of Painting and Drawing

Students have the opportunity to build on the experience of previous painting courses through the further development and deeper understanding of their own expression with paint. 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 in painting. Topics include: exploring different methods and materials in painting, research in the history and current developments in the field of painting. 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: FA311, FA312, and FA 313

FA 472 Intermediate Studio in Sculpture: Finding a Personal Voice in the Language of Sculpture
Students have the opportunity to build on the experience of previous sculpture courses through the further development and deeper understanding of their own expression in three-dimensional form. The focus of this course is to allow students to form a strong personal direction and develop a personal conceptual framework in their studio exploration of 3D media. Topics include: exploring advanced methods and materials in clay, plaster, wax, resin, etc. Students will also be engaged in researching the history and current developments in the field of sculpture. Lab fee $35 (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: FA 341, 342, and 343

FA 473 Intermediate Studio in Ceramics: Finding a Personal Voice in the Language of Ceramics
Students have the opportunity to build on the experience of previous ceramics courses through the further development and deeper understanding of their own expression in clay. 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 in ceramics. Topics include: exploring advanced methods and materials in clay and glaze, firing kilns, research in the history and current developments in the field of ceramics. 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: FA 341, 342, and 343

FA 474 Intermediate Studio in Photography: Finding a Personal Voice in the Language of Photography
Students have the opportunity to build on the experience of previous photography courses through the further development and deeper understanding of their own expression using photographic media. 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, with the goal of producing a cohesive body of work. Topics include: exploring and refining photographic methods and materials, as well as research in the history and current developments in the field of photography. Lab fee: $150 or more (4 credits) Prerequisites: FA 331, FA 332
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 professor.

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, Chair of the Department of Accounting, Emeritus Professor 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
• Bruce McCollum, PhD, Assistant Professor of Management
• Morad Malekghasemi, PhD, Assistant Professor of Business Administration
• David Weisman, MBA, MA, MFA, Assistant Professor of Business Administration
• Zhuo Jiang, Assistant Professor of Accounting
• Naveed Abbasi, MBA, Instructor of Accounting, Director of the MBA tracks in Accounting and SAP-Finance
• Clifford Rose, BA, Instructor of Business Administration
• Ye (Lin) Shi, MBA, Instructor of Accounting
• Stephen Harper, MBA, Adjunct Professor of Marketing
• Edi Shivaji, PhD, Adjunct Professor of Information Systems
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, 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 PhD in Management prepares researchers who can enrich the understanding and practice of sustainable business with new knowledge about the highest levels of performance for the individual, the team, and the organization as a whole.

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

- 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.

• **Specialization in Information Systems** — The objective of this innovative program is to provide the experienced student with strong knowledge and a skill set related to the managerial and technical aspects of Information Systems. The MBA in Information Systems (MBA-IS) program will provide students with the theories and practical knowledge necessary to strategically deploy information technologies and drive new business value.

• **Real World Experience** — Students in the MBA program 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.

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**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 **Management Track**, the
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)
- 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:

**Management Track**
*Choose 12 credits from the following courses:*
- MGT 200 Growing a Business
- 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 434 The Successful Entrepreneur (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 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.
**Graduation Requirements for the Minor in Government**

To graduate with a minor in government, students must complete 20 credits of course work in government (GOV), which may include the following MGT courses:

- MGT 414 Taxation
- MGT 428 Business Law and Ethics
- MGT 429 Human Resource Management
- MGT 484 Mediation and Negotiation

or the following Sustainable Living (SL) or Media and Communications (MC) courses:

- MC—W342 Global Solutions
- SL—P300 Ecology of Leadership for Life-Work
- SL—P301 Concept Maps for Changemakers
- SL—P303 Integral Theory
- SL—P304 Integrative Capstone Project
- SL – H101 Hawaiian Laboratory of Deep Sustainability and Transformative Leadership I
- SL—H102 Hawaiian Laboratory of Deep Sustainability and Transformative Leadership II
- SL—P101 Sustainable Global Environment
- SL—P404 How to Create Social Change

**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:*

- LIT 207 The Bhagavad-Gita
- LIT 366 The Peace Film
- LIT 370 Literature and the Environment
- MC—W342 Global Solutions
- MGT 402 Managing for Sustainability
- MGT 403 World Peace Project
- MGT 405 Cross-Cultural Communication
- MGT 484 Mediation and Negotiation
- MVS 302 Bhagavad-Gita — Chapters 1–3
- MVS 303 Bhagavad-Gita — Chapters 4–6
- MVS 304 Application of Maharishi Vedic Science
- MVS 307 Practicum in Maharishi Vedic Science
- MVS 330 *Transcendental Meditation-Sidhi* Course
Entrance Requirements for a Certificate in Business Studies

Any student with a high school diploma and a GPA of 2.5 is eligible to apply for a Certificate in Business Studies.

Graduation Requirements for a Certificate in Business Studies

To receive a Certificate in Business Studies, students must complete 18 credits as follows:
• STC 108 (6 credits)
• Any three 4-credit undergraduate MGT courses (12 credits)

MASTER 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 programs available on the Fairfield campus are an evening/weekend 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 Specialization in Sustainable Business
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.

Maharishi University of Management embraces the vision that business can be “green both ways,” making money and operating in harmony with nature. Examples of green business and “natural capitalism” — often referred to as “the next industrial revolution”—are integrated throughout the MBA curriculum.

At Maharishi University of Management, the theme of sustainability has five key components:

- **Self Sustainability** — Developing your full mental potential, physical health, and leadership abilities through Consciousness-Based education
- **Sustainable Entrepreneurship** — Creating successful “green” businesses that produce real value for society
- **Sustainable Business Solutions** — Learning techniques of continuous process improvement to sustain business success—serving the evolutionary needs of customers while eliminating waste for the business and the environment
- **Sustainable Management** — Practicing the interpersonal and organizational skills needed to successfully carry out transformational change
- **Sustainable Living** — Gaining advanced knowledge and experience in renewable energy production, renewable fuels, energy-saving devices and methods, organic agriculture, waste management, and the other principal fields of sustainable living

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 **Leadership and Conflict Resolution, Business Process Improvement**, 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 48 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.

**MBA in Information Systems**

The MBA–IS is primarily for students who have a strong technical background and who would like to expand the ways in which they can contribute to an organization. It’s structured so that students can continue working in their current job, with some courses being offered via distance education and other courses on campus. This MBA specialization teaches the theories, skills, and tools needed for integrating new technologies into the enterprise, such as social networking, big data, artificial intelligence, mobile computing, and cloud-based computing.

**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 5821 Leadership and Teamwork (2–4 credits)
• FOR 423 Team Building and Performance (1-2 credits)
• MGT 5342 Human Resource Management (4 credits)
* MGT 5060 Advanced Topics in Conflict Resolution (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 48 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 (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 (2 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 Accounting Professionals MBA program 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 5440 Enterprise Business Processes (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.

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 501 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 (9 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 course work.

Graduate Certificate in Leadership and Conflict Resolution

Leaders must be expert in resolving the conflicts that naturally arise in any organization. Even better is the skill to avert conflicts before they arise. To achieve this end and to complete the Certificate, students must complete 15 credits from the following list with a grade point average of at least 3.0.

• FOR 423 Team Building and Performance (1–2 credits)
• MGT 5821 Leadership and Teamwork (2–4 credits)
• MGT 5830 Mediation and Negotiation (4 credits)
• MGT 5342 Human Resource Management (2–4 credits)
• MGT 5060 Advanced Topics in Conflict Resolution (4 credits)
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 writing and teaching, 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. As part of the required course work, students undertake a written and oral 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.
- 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 (14 credits)

- MGT 601 Organizational Behavior Theory and Research (4 credits)
- MGT 607 Assessing Human Development (4 credits)
- MGT 676 Organizational Development and Change (4 credits)
- MGT 679 Research Seminar in Management (1 credit per semester; 2 credits required) may be repeated

Science and Technology of Consciousness (10 credits)

- FOR 500 Science and Technology of Consciousness (4 credits)
- MVS 552 Enlightenment: States of Higher Development in Maharishi Vedic Science (2 credits)
- MGT 610 Ethics of Enlightened Leaders (1 credit)
- FOR 700 Vedic Science Research: Using Maharishi Vedic Science in Dissertations to Illustrate Fundamental Principles (2 credits)
- A Forest Academy course is required in each semester for which the student is enrolled for at least three four-week blocks.
Research Methods (18 credits)

*Note: a maximum of one course may be waived by prior study; additional courses may be required by the dissertation adviser as appropriate to the student’s research*

- MGT 5240 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 (10 credits)

- MGT 692 Seminar in Writing (4 credits)
- FOR 598 Faculty Training Course (6 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 (20 credits minimum)

- MGT 690 Preparation for Qualifying Examination (4 credits per block). *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.)
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. (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 CCTS: Current Topics in Sustainable Economics—Efficiently Using Resources to Promote the Fulfillment of Individuals and Society
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. We review 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)
Prerequisites: STC 108, taken during students’ first semester or with consent of the Department faculty

MGT 222 Economics for Entrepreneurs: The Institutional Context of Creativity
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 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 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 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 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 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 434 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 434 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 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 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. (2–4 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)

**MGT 5020 Business Process Improvement: Business Activity in Accord with Nature’s Law of Least Action**
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 5060 Advanced Topics in Conflict Resolution: Finding Unity in Diversity
This course delves deeply into advanced techniques of conflict resolution. Students will continue to develop their practical skills as they learn how to deal with difficult parties and how to use various formats, such as coaching, for conflict resolution in a variety of settings: in the family, in the workplace, and in the community. Topics include: balancing of power, committed listening, overcoming impasse, transcending conflict, heartfelt conversation, forgiveness, and preventative conflict resolution. (4 credits) Prerequisites: MGT 484 or MGT 5830

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 5130 Business Law and Taxation for Accountants: 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 management accountants 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 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. (2-4 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: Knowledge Is Structured in Consciousness**
Effective managers have a good understanding of information systems and 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 also 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
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. (2-4 credits) Prerequisite: CS 422 or MGT 5450

MGT 5470 Systems Analysis and Design
System developers build technology-based solutions that meet the business goals and information processing requirements of users and managers. This course teaches a life cycle approach to system development that integrates database, software, interface, and networking aspects of computer-based applications. Topics include: techniques for process modeling and data analysis, client/server and Web-centric architectures, and project management. (2 credits)

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)

**MGT5514 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 108/109 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 a 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 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 5830 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 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 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 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 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 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 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 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 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 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 credits)

**MGT 688 Advances in Program Evaluation**
This course introduces program evaluation in the context of research methods. Students learn about design and the application of data collection skills to all phases of program/service delivery from needs assessment to analysis of findings to implementation of changes based on results. Students learn to appreciate how these skills can be used as practical tools for developing and implementing programs and for continuous improvement. This applied course provides students with practical experiences to apply guidelines of evaluation and research methods in actual program evaluation projects. (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 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 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
进度在前一学期的基础上和一个清晰的学习计划在下学期的

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
College of Computer Science and Mathematics

DEPARTMENT OF COMPUTER SCIENCE

FACULTY

• Keith Levi, PhD, Chair and Dean of College of Computer Science, Professor of Computer Science
• Greg Guthrie, PhD, Dean of Academic and Educational Technology, Professor of Computer Science
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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.

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 be given transfer credit for mathematics courses (above the level of Calculus 2) and for computer science courses (equivalent to courses in the major or minor) that were completed 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 preferable 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 the following semester 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 students’ 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 will need to obtain permission from the instructor and their academic advisor.

*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”) and submit scores from the Graduate Record Examination (GRE). 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 Discrete Mathematics

Students without this background can take the needed course work at the beginning of the program, thus increasing the length of the program up to one year. Undergraduate prerequisite course work grades will not be included in the GPA for the Master of Science program.
Four additional mathematics courses are also required for admission to the MS in Computer Science program:

- Calculus 1 (MATH 281)
- Calculus 2 (MATH 282)
- Linear Algebra I (MATH 286)
- Probability (MATH 351)

Students lacking one of these mathematics courses may be accepted with the understanding that this deficiency will be made up in addition to their regular program of study. 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.

Transfer credit for graduate courses completed at other qualified universities 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.

**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 of the following courses must be completed with a grade of “B” or better:
  - CS 435 Algorithms
  - CS 505 Advanced Programming Languages
- 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
- 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, 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 575–CS 579)
  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.
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 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 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 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 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 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) **Prerequisite:** CS 221 and at least one CS 400-level course

**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 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 CS472 waiver quiz

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 575 Practicum in Software Development
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. (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: written authorization

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 David Lynch MFA in Screenwriting

• Michael Barnard, MFA, Assistant Professor, Director of the David Lynch MFA in Film and TV Production (on leave 2018-19)

• Amine Kouider, MA (MFA-pending), Assistant Professor of Media and Communications

• 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

• 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 & TV Production. Each program entails completing a major project, e.g. screenplay; film; or TV or Web series episode.

Currently the Film & TV Production program is on hiatus.

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.

**MFA in Film & TV Production (not offered in 2018-19)**

In this MFA program, students write, produce, and complete a thesis film project, typically in collaboration with each other as well as with additional cast and crew, with continuing advice and mentorship from the faculty.

A 2015 graduate, Johnny Coffeen, won a Student Academy Award from the Academy of Motion Picture Arts and Sciences, one of 17 students chosen from a field of 1,700 entrants. In recent years, other students’ thesis projects have been shown at major film festivals around the world. The 2017 class of the MFA in Film & TV Production produced a Web TV series.

**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 504* Residency #5: Career Development for Writers in the Entertainment Industry (2 credits)
- DLMFA 510 Diving Deep into the Art of David Lynch (4 credits)
- DLMFA 520 Advanced Writing for Visual Media, Part 1 (6 credits)
- DLMFA 521 Advanced Writing for Visual Media, Part 2 (6 credits)
- DLMFA 522 Advanced Writing for Visual Media, Part 3 (6 credits)
- DLMFA 523 Advanced Writing for Visual Media, Part 4 (6 credits)
- DLMFA 525 Scriptwriting Thesis Project (2-6 credits per semester; may be repeated with permission of the program director)
- 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)
- DLMFA 595 Teaching Practicum (4 credits)

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, and includes brainstorming techniques, pitching demonstrations, and a public staged reading of their thesis screenplay. (2 credits)

**DLMFA 504 Residency #5: Career Development for Writers in the Entertainment Industry**
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 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 Lynch crafts his films once his ideas have come to him. (4 credits)
DLMFA 520 Advanced Writing for Visual Media: Storytelling through Character, Consequence, and Consciousness, Part 1
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 521 Advanced Writing for Visual Media: Storytelling through Character, Consequence and Consciousness, Part 2 (6 credits)

DLMFA 522 Advanced Writing for Visual Media: Storytelling through Character, Consequence and Consciousness, Part 3 (6 credits)

DLMFA 523 Advanced Writing for Visual Media: Storytelling through Character, Consequence and Consciousness, Part 4 (6 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 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 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)

DLMFA 595 Teaching Practicum
This course is designed to allow advanced graduate students of good academic standing the opportunity to teach coursework in film. It is especially recommended for those students who plan to go into a teaching career or who expect to help finance further graduate work through teaching assistantships. In most cases it will involve course planning and preparation, lectures, presentations, small discussion groups, homework, and quiz grading. (4 credits) Prerequisite: consent of department.
DEPARTMENT OF DEVELOPMENT OF CONSCIOUSNESS

FACULTY
• Michael Farrer, MA, Chair
• Kristine Wood, BS, Director
• Karen Aoki, PhD, Assistant Professor of Maharishi Vedic Science, Director of the Forest Academy Program
• Matthew Beaufort, MA, Associate Professor of Humanities
• Chris Cambridge, MA, Lecturer
• Ken Barrett, MA, Assistant Professor of Mathematics

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. Four 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 in the Golden Domes of Pure Knowledge 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 that all questions are answered and students continue to enjoy their meditation, blissfully and effortlessly, throughout the year

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 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)

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. Full-time 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 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 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 100, 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 utilizes 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. Full-time graduate 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

**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. Full-time 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
• Fred Travis, PhD, Professor of Maharishi Vedic Science, Dean of the Graduate School
• 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 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*

**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*
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.

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.

DEPARTMENTAL REQUIREMENTS

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/intensive-english-program

**COURSES**

**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.
DEPARTMENT OF EXERCISE AND SPORT SCIENCE

FACULTY

• Ken Daley, MEd, Chair, Professor of Exercise and Sport Science
• Tania Konstantia, BA, Instructor of Exercise and Sport Science

INTRODUCTION

The Department of Exercise and Sport Science 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. We travel to locations throughout the United States. We have also held six-week courses in New Zealand and Australia.

SPECIAL FEATURES

Each fall the department offers its Base Camp, where all freshmen and selected faculty and upperclassmen spend 4 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 snow boarding.

DEPARTMENTAL REQUIREMENTS

Graduation Requirements

All undergraduate students must complete a knowledge-based graduation requirement entitled “FOR 103 Health-Related Fitness.” This course should be completed during the student’s second semester.
Undergraduate students are strongly recommended to participate in four hours of dynamic physical activity each week and to request a fitness assessment each semester.

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 Ken Daley at kdaley@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

ESS 101 Health and Fitness Practicum: Physical Activity to Promote Longevity and Fitness for Life
In this innovative and unique course, students exercise daily, chart their activities, and report their achievement at the end of each month. Each year every student receives a fitness assessment and a personally tailored workout program. Students are then assessed again at the end of the year. A computerized system helps students track their progress and generates a regimen of exercises. (1 credit)

ESS 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 and understanding between all three groups with the goal of establishing cooperation for future endeavors. Activities include canoeing, biking, and hiking, as well as learning outdoor skills. (1 credit)

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
DEPARTMENT OF LIBERAL ARTS

FACULTY

• Christopher Jones, EdD, Chair, Professor of Education, Dean of Assessment and Undergraduate Studies
• Fred Travis, Ph.D., Professor of Maharishi Vedic Science
• John Hagelin, Ph.D., Professor of Physics
• Ken Daley, M.Ed., Professor of Exercise and Sports Science

INTRODUCTION

The Liberal Arts major is an interdisciplinary degree designed to deliver the University’s signature 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, they 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 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 Liberal Arts 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 14 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 Liberal Arts 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 you choose:** 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 you and your schedule.

DEPARTMENTAL REQUIREMENTS

**Entrance Requirements for the BA in Liberal Arts**

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 also 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 have to have the equivalent of Composition I, either in transfer credit or from passing an online writing assessment.

**Graduation Requirements for the BA Liberal Arts**

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

*Thirty-three credits (33) of Foundational Courses:*
  - STC 108 or STC109 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)
• LA 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 course credits from at least two separate degree programs.

C O U R S E S

Note: Courses listed above can be found in the following sections of the catalog:
STC and FOR: General Education
PHYS: Department of Physics
MATH: Department of Mathematics
WTG: Department of Media and Communications
CCTS: A CCTS-designated course is offered by each department

LA 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)

LA 400 Senior Project in the Bachelor’s in Liberal Arts Major
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 Integrative Studies 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)
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
- Thomas Egenes, PhD, Professor of Maharishi Vedic Science and Sanskrit
- Sue Brown, PhD, Assistant Professor of Maharishi Vedic Science
- John Collins, MA, Assistant 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
- Viji Hobbs, PhD, Assistant Professor of Maharishi Vedic Science
- Johan Svenson, PhD, Assistant Professor of Maharishi Vedic Science
- John Greco, PhD, Adjunct Professor of Maharishi Vedic Science

INTRODUCTION

The College of Maharishi Vedic Science provides the systematic knowledge and experience of pure consciousness, Ātmā, 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 —
  - 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 Rājarām (Tony Nader, MD, PhD), including Veda, Vedaṅga, Upaṅga, Upaveda, Itiḥāsa, 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 ½day/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 *Apaurousheya Bhāshya* of Rīk 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

**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 108/109 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 Vedic Literature as the Dynamics of Consciousness (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 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 Vedic Literature as the Dynamics of Consciousness (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:
  - 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)
- 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)

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• 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 40 credits of coursework:

• MVS 5001 Shikshā: Enlivening the Expressing Quality of Pure Intelligence (4 credits)
• MVS 5002 Jyotish: Enlivening the All-Knowing Quality of Intelligence (4 credits)
• MVS 5003 Yoga: Enlivening the Unifying Quality of Intelligence (4 credits)
• MVS 5004 Vedānt: Enlivening the Lively Absolute Quality of Intelligence (4 credits)
• MVS 5005 Sthāpatya Veda: Enlivening the Establishing Quality of Pure Intelligence (4 credits)
• MVS 5006 Charak Samhitā: Enlivening the Balancing Quality of Intelligence (4 credits)
• MVS 5007 Upanishad: Enlivening the Transcending Quality of Intelligence (4 credits)
• MVS 5008 Itihās: Enlivening the Blossoming of Totality Quality of Intelligence (4 credits)
• MVS 5009 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)
Note: Students who enter in February must also take:
• MVS 5000 Introduction to Reading the Vedic Literature, 2 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 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 Vedic Literature as the Dynamics of Human Consciousness
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. (4 credits)

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 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 Inner State of Yoga for Fulfillment in Life
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. *(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. *(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 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 108/109 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 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 paper. (2–4 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 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, you 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 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, Brāhmaṇa 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 5000 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 credits)

MVS 5001 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 5002 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 Brīhat Pārāśhara 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 5003 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 5004 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 Sūtra of Bādarāyaṇa, selections from the Bhagavad Gītā, Kaṭha Upanishad, Māṇḍūkya Upanishad, and Taśtvīya 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 5005 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 5006 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 5007 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 5008 Itihās: Enlivening the Blossoming of Totality Quality of Intelligence
Itihās illustrates the total range of human experience through living examples. Rāmāyaṇ is one of its two major divisions. In addition to their primary focus on reading Rāmāyaṇ in the Devanāgarī script, students in this course will learn about Itihās and Rāmāyaṇ in the contexts of Maharishi Vedic Science and Professor Tony Nader’s research on the human physiology. (4 credits)

MVS 5009 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, Brahma, 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
DEPARTMENT OF MATHEMATICS

FACULTY

• Anne Dow, PhD, Chair, Associate Professor of Mathematics
• Catherine Gorini, PhD, Professor of Mathematics
• Paul Corazza, PhD, Associate Professor of Mathematics and Computer Science
• Ken Barrett, Grad Dip, MA, Assistant Professor of Mathematics
• Debra Levitsky, PhD, Assistant Professor of Mathematics
• Richard Weller, PhD, Adjunct Assistant Professor of Mathematics and Physics

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.
• US 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 given transfer credit for mathematics courses above the level of Calculus 2, for computer science courses, and for 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.

Students complete CS201, CS203, and CS221 before being officially accepted into the Computer Science Track of the mathematics major. 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).

**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 “Bachelors 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) 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. Topics include: symmetry, Euclidean and non-Euclidean geometry, perspective and projective geometry, and fractals. Materials fee: $10 (4 credits) 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. Topics include: in-depth study of Euclidean and non-Euclidean geometries and their applications. (4 credits) 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. Topics include: logic and sets, relations and functions, vertex-edge graphs, recursion, and combinatorics. (Same as CS 272) (4 credits) 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 theory of infinite 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 MEDIA AND COMMUNICATIONS

FACULTY

• Stuart Tanner, MA, Chair, Assistant Professor of Media and Communications
• Leah Waller, MFA, BA Program Director, Assistant Professor of Creative Writing
• Terry Fairchild, PhD, Professor of Literature and Writing
• James Fairchild, PhD, Associate Professor of Literature and Writing
• Nynke Passi, MA, Assistant Professor of Literature and Writing
• Amine Kouider, MA, Instructor of Media and Communications
• Cody Olivas, MA, Instructor of Media and Communications
• Cullen Thomas, MA, Instructor of Media and Communications
• Kenneth West, MBA, Adjunct Professor of Media and Communications

INTRODUCTION

Ours is an age of the Internet and ever advancing technology. Now, more than ever, all forms of communication and creative expression are being enhanced by the power of digital technology. This provides an unprecedented opportunity to apply the power of all forms of media to bring about positive transformation in the world.

The goal of the BA in Media and Communications is to teach students a range of essential skills and technical knowledge of film making, web design, graphic design, music/audio, and creative and professional writing. 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, professional writing, music production, and the arts.

SPECIAL FEATURES

The Media and Communications 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.

The BA in Creative and Professional Writing offers a safe haven for developing writers who learn in a completely supportive environment. The program also:

- Teaches writing in a professional, workshop atmosphere
- Transforms aspiring writers into actual writers
- Presents a variety of writing opportunities, from the purely creative to media-based to the professional and the pragmatic
- Embraces techniques, including the Transcendental Meditation and TM-Sidhi programs, that develop the writer holistically
- Produces writers who are the masters of their own selves as well as the literature they produce
- Gives writing students copious, friendly feedback that assists them in developing quickly as writers
- Provides students the opportunity to become active members of a thriving writing community, to read their works in a public forum, and to publish in local journals

**PROGRAMS OFFERED**

**BA in Media and Communication**

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.

**BA and BFA in Creative and Professional Writing**

Journalism • photojournalism • screenwriting • travel writing • creative writing • writing for the web • creating graphic novels • publishing e-books • social media marketing

**DEPARTMENTAL REQUIREMENTS**

**Graduation Requirements for the BA Degree in Media and Communications**

To graduate with a BA in Media and Communications, 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 Media and Communications.

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 12 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
• Any LIT course on film history or media
plus 8 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 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’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 Media and Communications.

4 credits from Core Writing courses (pick one):
• MC—W300 The Art of Story (4 credits)
• MC—W345 Creative Process (4 credits)

plus 4 credits of Critical Thinking courses:
• MC—W250 The Power of the Word

plus 12 credits from Literature courses:
• Any LIT course level 200 and above

plus 12 credits from Writing courses:
• Any MC—W course or WTG course 200 and above

plus 16 credits of MC elective courses:
• Any MC, LIT, WTG class level 200 and above

plus:
• Complete a Final Portfolio 15–20 pages
• Complete an Exit Paper 5 pages
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’s 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 intro Credits, 8 Core Courses, 4 CCTS credits, 16 credits of LIT, 12 writing credits (one in fiction, nonfiction, and poetry), 16 credits of electives from MC, LIT, or WTG, 4 credits of Professional Preparation, and 16 credits of BFA Studio Courses.

2 Credits of Core BFA Forest:
• FOR 375 Introduction to Creative and Professional Writing Bachelors of Fine Arts

plus 8 credits from Core Writing courses:
• MC—W300 The Art of Story
• MC—W345 Creative Process

plus 4 credits of Critical Thinking courses:
• MC—W250 The Power of the Word

plus 4 credits from Literary Criticism courses:
• LIT 205 CCTS Introduction to Literature and Creative Writing

plus 16 credits from any Literature courses
• Any LIT level 200 and above

plus 12 credits from Writing courses (which must include):
• Any WTG or MC-W in Fiction (4 credits)
• Any WTG or MC-W in Nonfiction (4 credits)
• Any WTG or MC-W in Poetry (4 credits)

plus
16 credits from MC Electives
• Any MC, LIT, or WTG classes level 200 and above

plus
8 credits from Professional Preparation courses:
• WTG 371 Writing to Publish
• MCW 203 Professional Editing
plus 16 credits of BFA Studio:
• WTG 475 Creative and Professional Writing BFA Studio

plus,
• Complete a Final Portfolio 30-60 pages (depending on genre)
• Reflection paper (5–7 pages)
• Deliver a Public Reading
• Receive final approval from the BFA Committee

Graduation Requirements for a Minor in Media and Communications

To graduate with a minor in Media and Communications, 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 Media and Communications.

Graduation Requirements for a Minor in Creative and Professional Writing

To graduate with a minor in Creative and Professional Writing, the student must complete 4 credits of core writing courses (The Art of the Story, Creative Process, Power of the Word, LIT 205, or Professional Editing) plus 16 credits of any MC-W or WTG courses.

Graduation Requirements for a Minor in Literature

To graduate with a minor in Literature, the student must complete 4 credits of core literature courses (The Art of the Story, Creative Process, LIT 205, or Professional Editing) plus 16 credits of any LIT courses.

COURSES

Media and Communications Courses

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

MC 282 Promotional Shorts
This is an introductory course into the talent and expertise used in the creative world of promotional filmmaking. We will explore this visual world of marketing communications and use our creativeness to produce promotional videos for local businesses. We will develop our fundamental skills in creative narrative and business marketing. (4 credits)
MC 380 Media Projects: Turning Imagination into Reality
This is a capstone course in which individuals who have taken the courses in Media and Communications 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. 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. (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: MC F282 or MC 310 and MC W300; and 12 credits in one of the concentrations; or consent of the instructor

MC 398 Internship in Media and Communications: 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 Media and Communications and consent of the Media and Communications 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 Media and Communications faculty.

MC 451 Changemaker Studio: Using Creative Solutions to Remove All Obstacles to the Development of Humanity’s Full Potential
This course is designed for students who are taking the Changemaker module or sequence of courses. In this course students have the opportunity to complete projects initiated in the previous Changemaker module courses. This can be a range of projects including factual films, and advancing campaigns through the use of media, story and messaging. The goal of the course is for students to complete an advanced-level project
for their portfolio with the support of faculty. (4 credits) Prerequisite: Permission of the Department

MC 580 Advanced Film Production
In this block, students engage fully in the challenges of filming a film project on location and in studio. This block will test and develop skills in lighting, camera work, scheduling, teamwork, directing actors, handling production unknowns, props and costuming, makeup, creative problem solving, critical thinking, and narrative and visual storytelling. This capstone course requires highly developed teamwork and production skills, and rewards hard work, teamwork, independence, and adaptability. (4 credits) Prerequisite: Five Scenes MC—F282

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—D336 Travel Photography and Video: Capturing the Essence of the Moment When Traveling
In this class, students will explore and document culture and landscape through the digital photo lens. They will also learn how to take photos for use in stock photography and other commercial photography venues. Fees: Extra expenses for travel, accommodation, meals, etc. (2–4 credits) Prerequisite: permission of department

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—D366 Graphic Design for Media and Communications 1: Integrating Medium and Message
This course provides students with the basic practical knowledge and skills needed to create effective visual design using current and critical tools and techniques. Students focus on developing their graphic design skills for personal and professional usage using Photoshop and InDesign. Topics include: digital imaging and page layout tools; principles and elements of visual design; color theory, layout design; basic principles and history of typography; brand design; use of digital photography; and copyright law. (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—F286 Stop Motion Animation: Capturing Expressions of Consciousness with the Digital Lens**

Students in this course will gain knowledge and technical skills to produce a short stop-motion film. They will learn cinematic process, or techniques used to make static objects appear as if they were moving. Students will practice the fundamentals of the three main stages when creating a film: pre-production, production, and post-production. Pre-production: storyboarding, timing, sets and characters. Production: camera setup, software, lighting, and animation techniques. Post-production: importing footage, adjusting timing, and removing unwanted frames. (4 credits) **Prerequisite:** basic computer skills

**MC—F288 Cinematography: Developing Finer Levels of Perception**

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—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 Documentary Filmmaking: Developing the Means to Explore Human Life in All its Diversity and Underlying Unity
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

MC—F318 Music Video Editing 2 — The Art of the Cut: The whole Is Greater than the Sum of Its Parts
An advance video editing course where students learn the fundamental artistic elements of video editing. In this course students will learn a variety of techniques such as rhythm, flow, the ability to enhance an actor’s performance through editing, visual storytelling, methodology for keyboard shortcuts, and accelerating the editing process. This course will be building on what is explored in the Video Editing course and taking it to the next level. Students will integrate the principle that the whole is greater than the sum of its parts and that every element of filmmaking finds its fulfillment in the cut. (4 credits) Prerequisites: MC—F282 and MC—F284

MC—F322 Advanced Film Pre-Production
This course is designed to teach advanced concepts, theories and technical skills in pre-production filmmaking. Students will acquire these skills through small group productions, individual performance, and repetition of pre-production assignments. During this pre-production course, students will be exposed to the fundamentals of producing and directing, visual storytelling, story-boarding, idea development, lighting,
audio, shot composition, location scouting, budgeting, finding talent, look-books, and script breakdowns. (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: Five Scenes MC—F282

MC—F326 Advanced Post-Production
This course is designed to teach advanced concepts, theories and technical skills in post-production filmmaking. Students will acquire these skills through small group productions, individual performance, as well as work on their own short films. Throughout the course, students will be exposed to the advanced levels of video editing, color grading, sound design, sound mixing, music in film and all aspects related to finishing post-production a short film. This course will be a final course in the Advanced Filmmaking module and students are required to have a finished film by the end of this course. (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—M231 Creative Songwriting
In this class students learn the craft of songwriting, which includes creating lyrics, finding melodies and practicing with their instruments of choice to bring their songs to life. In this class we will work individually and collaboratively to create, record and perform songs from the deepest level of consciousness. Techniques for song structure and music theory are taught alongside creative techniques to express different experiences and impart a feeling to the audience. At the conclusion of this course students will create at least two compositions that they record as a demo in the Media and Communications recording studio and perform in front of a live audience.

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—W203 Professional Editing
Most writers in their careers will have the opportunity to work as an editor: for a publisher, a business, or through freelancing. The skills we learn in our writing program translate well to this profession, but to be an accomplished editor one needs other skills. In this occupation, we have to quickly assess the quality of a piece of writing and locate what is good and what needs work. A good editor must have an understanding of structure, logic, style and tone, the ability to convey to a writer what needs fixing and how to go about it. An editor also needs an excellent command of grammar and usage. In this course students will gain real editing experience, and, of course, the abilities learned in editing will significantly enhance one’s own writing. Prerequisite: WTG 192 or consent of the instructor (4 credits)

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: 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.

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. (4 credits)

**MC—W310 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

**MC—W342 Global Solutions**
Global Solutions is a journalism and change maker course that looks at the leading global issues that are reported in the world’s press and then progresses to examine how these issues can be addressed and positive change brought about. All journalists know that after a period of time covering the issues of the day, simply exposing what is happening is not enough; change in policy and exercise of dynamic solutions need to be applied. This course looks at what the media can do to bring about change and then goes deeper and looks at the ways in which solutions can be developed on a global scale. Some of the
big issues of the day we will discuss are income inequality, access to education, food security, climate change, poverty, sustainability and access to political representation. As part of this we will discover that often what we believe is true about these issues is not accurate and that wrong information is part of the problem. One example being the belief that global population is increasing at unsustainable levels—the actual predictions might surprise you. There are many such examples. Lively debate and discussions of the best solutions to these issues will be the engine of this course. If you want to be a changemaker—get on board for the ride! (4 credits)

MC—W345 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. (4 credits) Prerequisite: ART, LIT, or MC major, or permission of instructor

MC—W351 The Writing Room: From Idea to Screen
In the first block of the Advanced Creative Film-making Module, students will form teams and work collaboratively to pitch, approve, write, refine and ultimately select for production the short screenplays, which will be shot over the following months. Students will develop their skills at screenwriting, pre-production, teamwork and communication by tackling the challenges of designing the film they intend to produce. Scripts will emphasize real world production considerations, humor and resourcefulness to achieve stories that can be told at each team’s level of experience and ability. (4 credits) Prerequisites: basic computer skills, MC 282 and either MC—W245 Writing for the Screen or FOR 483 Story in the Gap.
**Writing Courses**

**WTG 191 College Composition 1**
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**
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 195 Writing for Professional Development: Writing is for Action, Achievement, and Fulfillment**
This course prepares students to compose and edit the kinds of writing done in the real world, whether you are a non-profit or for-profit employee, a manager, or an entrepreneur. In addition, students propose a final project for their degree which ties together conceptual frameworks from two or more fields and shows their application to a real-world challenge. Types of writing learned include reflective writing, emails, proposals, position papers, and research papers. *Prerequisite: WTG 191 or demonstrated competence in an essay.* (4 credits)

**WTG 201 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, Pattıann 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 300 Hidden Figures
This course listens to and celebrates voices and narratives that have too often been marginalized, over-simplified, or silenced — 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 — not only to explore the problems with the single story and themes such as loss of speech, erasure of memory, exile from community, loss of identity, stereotyping, and silencing of any kind, but even more the exhilaration and empowerment of the finding back of 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 the 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 313 Writing and Reading the Short Story
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 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 three short stories and workshop those stories in class. (4 credits) **Prerequisite:** WTG 192 or consent of the instructor

### WTG 315 Writing Literary Nonfiction
During the second half of the twentieth century, creative nonfiction — called “the new literature” — has steadily grown in popularity. Reading such writers as Annie Dillard, Rosemary Mahoney, Joan Didion, Joseph Mitchell, and John McPhee, students discover the potential of nonfiction to elicit an aesthetic response equal to that of the novel. In this course, students learn to combine techniques of journalism and fiction in writing their own creative nonfiction. (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 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 340 Writers on Writing
This course offers tools and techniques essential to the life of the writer. Students examine what celebrated writers—from novelists to children’s writers, memoirists, journalists, and poets—have said about inspiration, gathering ideas, methods of working, favored tools and techniques, as well as tried and true writing and revision procedures.
Through videos and presentations by guest speakers, students get a first-hand account of the poet’s or writer’s life, learning vital skills to help set up a healthy and sustainable writing routine. This course encourages discipline, making daily writing practice a habit until it becomes easy. The syllabus reader contains encouraging, inspirational excerpts by poets and writers such as Eudora Welty, William Faulkner, Ernest Hemingway, William Saroyan, Frank Conroy, Thomas Wolfe, Annie Dillard, Patricia Hampl, William Stafford, Mark Strand, Jane Hirshfield, and more. Students reflect on their own creative process in various assignments, plus write a portfolio in a genre of choice as a final project. (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 343 Writing for Children 2**

Children’s literature is divided into half a dozen or so formats, each tailored to age specific vocabulary, interests, images, pacing, and subject matter. In Writing for Children 1, students create a picture book and write a first chapter book. In Writing for Children Writing 2, students can choose to write either a middle-grade book or a Young Adult novel. Although subject matter, complexity, and vocabulary must change, the skills for writing any form of children’s literature remain basically the same, including the Young Adult novel. Therefore, Writing for Children 1 is not a prerequisite for Writing for Children 2. Students can take either course in any order. **Prerequisite:** WTG 342, and WTG 192 or consent of the instructor (4 credits)

**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 and 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) Prerequisite: WTG 192, WTG 201 or WTG 310 or permission of 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. 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

WTG 352 Novel Writing Workshop 2
(4 credits) Prerequisites: WTG 192 and WTG 351

WTG 360 Writing and Photography
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. Requirements: a $35 fee for materials. **Prerequisite:** WTG192 or consent from the instructor. (4 credits)

**WTG 371 Writing to Publish: Enlightenment Is the True Nature of the Self**
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 and looking for. Upon completion students will have submitted several pieces for publication. (4 credits)

**WTG 375 Flash Fiction: Crystallized Visions**
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**
(variable credits) **Prerequisites:** consent of the Department faculty and the Academic Standards Committee

**WTG 410 Travel Writing: Traveling Into Space & Time Focused on the Beyond**
From Mark Twain to John Steinbeck, many of the world’s greatest writers have been drawn to travel writing. As Marcel Proust put it, “The real voyage of discovery consists not in seeking new landscapes but in having new eyes.” This travel-writing course teaches students how to perceive the familiar in a new way, finding points of interest in and around the state of Iowa. The class will go on several daytrips, and if possible a
longer weekend trip to a city within a 4-hour radius of Fairfield. On these trips, students research and gather material for travel articles and essays that can range from the formal (objective) to the informal (subjective). Focus options of travel articles may be: destination, journey, special interest, “roundup” themes, historical or holiday, side trip, outdoor/recreation, news, humor, travel advice, food and travel, or personal experience. Students learn about the craft and technique of travel writing from discussions and from the textbook, L. Peat O’Neil’s Travel Writing, which outlines interviewing techniques, ways to write a good hook, how to research, how to write a successful pitch or query, the best markets for travel articles, etc. Students are expected to submit one article for publication to regional magazine The Iowa Source or another suitable publication. In the end, students learn that travel writing is not so much about place as about the travel writer, since travel experience is most interesting when filtered through an astute and perceptive individual consciousness. (4 credits) Prerequisite: WTG 192 or consent of the instructor

WTG 475 Creative and Professional Writing BFA Studio 1-2-3-4: Binding the Boundless
As a culmination of the BFA program, 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 will offer 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 40 – 60 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 three 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 perfect preparation for graduate work in creative writing and for publication, allowing students to try out the professional writing life. (16 credits) Prerequisites: final semester and consent of Department
Literature Courses

LIT 205 CCTS Introduction to Literature and Creative Writing: Expansion of Consciousness
This introductory course is offered early in each academic year and covers three basic areas: a) how to read and analyze literature; b) how to write about literature; c) and how to write creative and effective essays. It will also contain a creative writing element. This course is a required course for all English majors (Literature and/or Creative Writing), and it is recommended that it be taken early in the major. Texts include short stories, essays, and a literary handbook especially designed for the course. (4 credits)

LIT 265 Evolution of Film: From the Lumiere Brothers to Wes Anderson
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.” (4 credits)

LIT 302 The Ramayana as the Ultimate Epic Narrative: The Hero Conquering Ignorance and Realizing the Self
An epic is a long narrative in elevated style about characters of high position who perform extraordinary actions. From the great world epics, students study principles of Maharishi Vedic Science to illuminate the subtleties of language and thought. The primary text of this course is the Ramayana. Other selections may include parts of the Bible and other scriptures, Homer’s Odyssey, Dante’s Divine Comedy, and Goethe’s Faust. (4 credits)

LIT 305 Native American Literature
Modern Native Americans have rediscovered their spiritual heritage through a reclaiming of ancient tribal customs. In this course, we will track their spiritual transformation in such works as Leslie Marmon Silko’s Ceremony, about the healing and new meaning that comes to the hero’s life. In Frank Waters’ The Man Who Killed the Deer, the hero had at a young age lost his spiritual bearings but regains them through a series of profound insights. Black Elk Speaks is a Native American spiritual autobiography; at its center is Black Elk’s cosmic vision of America’s destiny. These and other works chronicle what is both profound and tragic in the life of America’s indigenous peoples. (4 credits)

LIT 325 Classics of Greece and Rome
The literature of ancient Greece and Rome is the source of the Western literary tradition. The Greeks in particular recognized the value of literature as an expression of society’s
shared ideals and as a means of developing social unity and harmony. Works studied will include Homer’s *Odyssey*, Aeschylus’ *Agamemnon*, Sophocles’ *Oedipus Rex* and *Antigone*, Euripides’ *Hippolytus*, Aristophanes’ *Lysistrata*, Aristotle’s *The Poetics*, and from Plato’s *Republic*. (4 credits)

**LIT 328 The Bible as Literature: The Divine as the Source, Course, and Goal of All Existence**

The Bible as Literature is a two-week course meant to introduce students to the Old and New Testaments of the Bible, as well as examine it as not only a religious text but also as a literary text. Moreover, we will consider the influence of the Bible on literature and culture. Cultural Literacy as it relates to the Bible is a primary aim of the course. We will look closely at *Genesis, Exodus, Matthew, Luke, John*, and *Revelations* among the Bible offerings. We will read an assortment of Biblical-influenced literary texts including: D.H. Lawrence’s *The Horse Dealer’s Daughter*, Eliot’s *Journey of the Magi*, Yeats’ *Second Coming* and *The Magi*, Keats’ *Ode to a Nightingale*, Coleridge’s *Rime of the Ancient Mariner*, Dylan Thomas’ *Fern Hill*, and many others. We will also watch a couple of films inspired by the Bible such as *Amadeus* and *The Seventh Seal*. (2–4 credits)

**LIT 330 Medieval Literature: From Beowulf to the Medieval Romance**

This course opens with the heroic ideals of the Anglo-Saxons, runs through the birth and popularization of courtly love, and ends at the doorstep of the European Renaissance. Intrinsically involved with the quest motif, this course charts the pilgrimages in the adventures of Beowulf, Chaucer’s *Canterbury Tales*, Sir Gawain search for the Green Knight, and the Arthurian knights (especially those concerned with the quest for the Holy Grail), and Dante’s emergence from the inferno into paradise in the *Divine Comedy*. (4 credits)

**LIT 331 Fantasy Literature**

“Fantasy is where you meet yourself,” says Norman Talbot. Resting on this premise, this course will attempt to define the term “fantasy,” consider what makes a literary work fantastical, and determine how fantasy differs from realism. Because the “fantastic” is an idea accessible in various forms, we will investigate into the nature of fantasy by reading examples from a wide selection of writers including, Lewis Carroll, Italo Calvino, Ursula Le Guin, E.T.A Hoffman, Jorge Luis Borges, Isabelle Allende, C.S Lewis, and Walter Moers. Besides fiction, we will also view some fantastical films. (4 credits)

**LIT 335 Shakespeare’s Festival of Comedy**

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. 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)

**LIT 339 Renaissance Literature: The Rebirth of Knowledge**

The Renaissance was the re-emergence of dynamic social and intellectual activity in the Western world. It marked one of the most vibrant literary, dramatic, and poetic periods in history. Its writers searched for fundamental principles and orderly poetic structures in accord with natural law to assist in the full development of human life. Beginning with Petrarch, this course examines some of the greatest Renaissance writers of the sixteenth and early seventeenth centuries: Wyatt, Spenser, Sidney, Donne, Traherne, Herbert, Vaughn, Marvell, and Milton. Also included are readings from some of the major Renaissance philosophers, courtiers, and scientists. (4 credits)

**LIT 340 Hemingway**

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,* 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 *A Moveable Feast,* a recollection of the expatriate movement in Paris in the 1920s. (4 credits)

**LIT 341 Eighteenth-Century Literature: The Age of Pope, Swift, and Dryden**

This course covers the literature of the Augustan Age, the Restoration, and the Age of Johnson, and considers the period’s emphasis on feelings and rational thought seen in the novel and in the intellectual tenor of the time. Writers include Dryden, Pope, Swift, Defoe, Richardson, Fielding, Burney, Samuel Johnson, and Jane Austen. (4 credits)

**LIT 342 The Novels of Jane Austen: The Expression of Balance and Order**

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)
LIT 344 The Romantic Period: Transcendentalism and the Inner World
This course examines the nineteenth-century Romantic Movement and its escape from the limitations of eighteenth-century rationalism through an emphasis on the divine creative power of the imagination, an exalted perception of poetry and the poet, sympathy for social renewal, a distrust of industrialization and urbanization, and a rediscovery of the transcendent. Writers include Blake, Wordsworth, Coleridge, Byron, Percy and Mary Shelley, and Keats. (4 credits)

LIT 345 Literature of Romance
Literature of Romance is the story of the relationships between men and women, sometimes idealized, sometimes tragic. Romantic love is such a dominant element in the modern world one would think that it has always existed. But as a philosophy and as an art form, romantic love—the elevated, all-consuming, life-altering affection for a single individual—is relatively new, established in western society in the early 12th century. The story of romantic love begins in the south of France with a single individual—Guillaume IX and spreads throughout Europe and the West without abatement. Among the works we may read are works from Medieval Chivalry, a couple of Shakespeare’s romantic comedies, Jane Austen’s Pride and Prejudice, E.M. Forster’s A Room with a View, and a collection of romantic love poetry. (4 credits)
Note: This course is not to be confused with LIT 344 Literature of the Romantic Period—rebellious and transcendental literature of the early 19th century.

LIT 347 Victorian Literature
Victorian literary style reflects a period of transition from the Romantic to the Modern through a blending of profound subjective experience with an awakened consciousness of rapid social change. Writers may include Charlotte Bronte, Carlyle, Tennyson, Arnold, Dickens, George Eliot, the Brownings, Hopkins, and others. (4 credits)

LIT 348 Twentieth-Century British Literature
“Make it New!” was the clarion cry at the turn of the twentieth century of a whole generation of writers. Poets, novelists, and dramatists all wanted to break with a past they saw at corrupt and outdated. Therefore, everything for them 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)
LIT 349 Short Stories from One World
We will read selections of short studies from around the world in this course, focusing on seven geographical units: Africa, Middle East, Asia, Australia and Oceania, Europe, Latin America, and North America. Some of the authors we will read are Raymond Carver, Flannery O’Connor, Kafka, Naguib Mahfouz, Virginia Woolf, James Joyce, Chinua Achebe, Isabelle Allende, and David Malouf. The rich diversity of their stories, representing a variety of world cultures, will give us an entry into the human experience in our own and other cultural domains and provide us with new insights. We will study the stories founded on the underlying motifs of “the condition of the individual,” “families and communities,” and “gender.” While we analyze how each story handles one or more of these motifs, we will also think thematically about the quest for “Sat-chit-ananda: Absolute Bliss Consciousness,” and we will study the ways in which this quest for unbounded Bliss takes different forms from story to story. (4 credits)

LIT 351 Modern American Literature
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)

LIT 352 Modern British Literature: From the Source to Infinity
Modern British Literature spans the period known as the "fin de siècle, “the end of the 19th Century through World War II, featuring the period known as "high modernism." We will examine modernism in its various incarnations as well as the forces that spawned it. Modernism throughout the world witnessed enormous historical, political, and cultural change, including a period of great artistic and spiritual growth. Among the artists we will read are: George Bernard Shaw, E. M. Forster, Joseph Conrad, James Joyce, Virginia Woolf, D.H. Lawrence, William Butler Yeats, and T.S. Eliot. (4 credits)

LIT 354 Modern American Novel
Perhaps no other event in the 20th Century shaped the arts as much as World War I. It ushered in a period of intense scrutiny of all the old assumptions and attempted to redefine life in the wake of global devastation. In this course, “modern” refers to novels written during or related to the Modern Period, which existed from the turn of the century up to the Second World War. The chief American novelists of this period are Fitzgerald, Hemingway, Faulkner, Steinbeck, Willa Cather, and perhaps, Henry James who appeared a little earlier, but whose realism helped pave the way for the modern novel. We will read
several novels and a couple of shorter works, or novellas, from one of America’s greatest literary periods. (4 credits)

**LIT 355 Asian Literature: The Spiritual Literature of the Far 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)

**LIT 356 Contemporary Fiction**
Contemporary fiction writers are the classics of tomorrow. In these days of multimedia, “fiction” could include films, videos, graphic novels, collages, and other visual media containing a fictional story line. In this course, we will read two contemporary novels by authors such as Barbara Kingsolver, Leslie Marmon Silko, R.K. Narayan, Nick Hornby, and Kate Atkinson. We will also read a number of short stories by writers like T.C. Boyle, Alice Munro, and George Saunders and watch recent films of literary quality. Students will write one essay on any author or filmmaker studied in this class, prepare an oral report, including a visual such as a poster or PowerPoint presentation, and submit a creative work. This could be a short story or something visual with a fictional narrative such as a video, a short animation, graphic short story, etc. Students may include a Maharishi Vedic Science component in their analytical essay or create a Main Points Chart to accompany their oral presentation or final project. (4 credits)

**LIT 357 The Hero in Literature**
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 exit in the modern world. Among the texts and themes we will follow are: The Odyssey: The Classical Hero; Beowulf: The Germanic Hero; Gawain and the Green Knight: The Medieval Hero; Siddhartha: The Spiritual Hero; and The Bean Trees: The Feminine Hero. (4 credits)

**LIT 358 Science Fiction in Literature and Film**
Science fiction has long been considered strictly pulp, but serious writers like Thomas Nashe, Jonathan Swift, H.G. Wells, and Aldous Huxley have combined science with speculation as far back as the Renaissance and perhaps even earlier. In this course, we will explore the pros and cons of current runaway technology, its effects on the individual, social institutions, and the global community. Students will read Aldous
Huxley’s *Brave New World* and Philip K. Dick’s *Do Androids Dream of Electric Sheep*, will watch a number of science-fiction films—including *The Day the Earth Stood Still, 2001: A Space Odyssey, Blade Runner, and Children of Men*—and will write a science-fiction story of their own. (4 credits)

**LIT 359 The Short Story**
A short story contains all the elements of the novel in micro form and because it is so compact is an ideal arena for studying literature. In this course, we will study some of the world’s greatest short story writers beginning with Romantics Washington Irving, Edgar Allan Poe, and Nathaniel Hawthorne, then moving to later, more realistic writers such Guy de Maupassant, Anton Chekhov, Sarah Orne Jewett, and Henry James. Afterward, we will read works by such modernist writers as James Joyce, D.H. Lawrence, E.M. Forster, William Faulkner, Ernest Hemingway, and Flannery O’Connor, finishing up with contemporary writers including Alice Munro, John Updike, and Leslie Marmon Silko. Students will write a short analytical essay on one of the writers studied in the course and will write a short story as the final project. Students may include a Maharishi Vedic Science component in their analytical essay or create a Main Points Chart to accompany their final project. (4 credits)

**LIT 361 The Novel**
The novel in the last two centuries has become the literary form of choice. It reigns supreme in conveying the depth, experience, and great complexity of character. Born in the eighteenth century when long narratives — including epics, fables, romances, and picaresque tales — were losing their vitality, the novel became literature’s torch bearer: the primary literary mode for depicting life. This course examines the history, techniques, and forms of the novel, from social realism to meta-fiction, and may include novels from any given period from the eighteenth century onward. (4 credits)

**LIT 363 The Art of Film**
This course emphasizes film technique, including cinematography, camera angles, and *mise en scene*. It takes the student out of the realm of the Saturday night “movie” and into the world of film as a major art form. Our primary texts in this course will be the films themselves, including the masterworks of some of the world’s finest directors. Some of the films that we may watch include *Wild Strawberries, 8 1/2, Citizen Kane, North by Northwest, Annie Hall,* and *Run Lola Run*. Course requirements include the writing of film reviews and the analysis of a key scene from a film we will have viewed. ($10 lab fee) (4 credits)

**LIT 364 The Science Fiction Film**
This course is part historical, beginning with Frankenstein from the 1930s and including films on up to the present. We will look into some of the broad sci-fi themes, such as
what it is to be human, analyze what makes a good sci-fi film, and write a film review of a sci-fi film not shown in class. Some of the subgenres include space operas, alien films, B movies, visionary films, cautionary films, and humor. We will watch such iconic films as The Day the Earth Stood Still, 2001, Star Wars, E.T., Starman, Tron, Star Trek, The Matrix, and Blade Runner, plus some of the more recent entries, including Children of Men, Inception, Avatar, and Galaxy Quest. (4 credits)

LIT 367 Modern European Drama: From Realism to Expressionism
Led by such dramatic innovators as Ibsen, Strindberg, Chekhov, Shaw, Pirandello, and Brecht, drama began to emerge from a century of mediocrity. In the late nineteenth century these dramatists pioneered a dramatic revolution that expressed itself in such forms as realism, naturalism, impressionism, expressionism, surrealism, and the theater of the absurd. All of these figures and the movements they spawned will be examined in this course along with the work of other influential dramatists such as Eliot, Yeats, and Shaffer. (4 credits)

LIT 368 Contemporary Film
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 Blue, 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, Luc Besson’s Angel-A. (4 credits)

LIT 369 Comparative Drama
All Western drama begins with the Greeks, specifically the four titans of Athens’ Golden Age: Aeschylus, Sophocles, Euripides, and Aristophanes. In the festivals to Dionysus these four dramatists developed the theatrical concepts of Tragedy and Comedy and helped shape our present view of humanity. In America, some 24 centuries later, Eugene O’Neill gave shape to the modern theater. Much of what O’Neill created was strongly influenced by the Greeks. The American drama that followed O’Neill, Tennessee Williams, Arthur Miller, Beth Henley and others, labored directly under O’Neill’s influence and indirectly under that of the Greek masters. (4 credits)
LIT 370 Literature and the Environment
Nature and the environment has become the most celebrated cause of the last few decades, giving rise to a literature of its own. In this course, we will begin first with Maharishi’s vision of nature and natural law, then read some traditional naturalists such as Emerson and Thoreau, and finally move to a variety of modern environmentalists. Our primary text will be the Norton Book of Nature Writing. In our reading we will study the philosophical, historical, and cultural approaches to the environment that America has inherited. Students will also read an extra text on nature to present to the class and keep a nature journal to discover what Mitchell Thomas how calls our “ecological identity.” (4 credits)

LIT 371 The Lord of the Rings
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)

LIT 372 Media and Literature
In the age we live in, the media constructs and reconstructs the world we know. It is so pervasive that virtually no one on this planet is free from its influence, be it good or bad. At the basis of media is language, the first level of communication. Language forms itself into texts — written, visual, and audio texts — and texts are the interest of literature. In this course, we will read a variety of texts that deal directly and indirectly with media as we explore its severe limitations as well as its possibilities to help bring about a worldwide transformation. One literary figure commenting on the relationship between literature and the media said, “Literature is news that stays news.” — Ezra Pound. (4 credits)
LIT 374 The Great American Road Trip
Does the open road beckon you? People have been traveling American highways for more than a century. This course follows their trips. We’ll read road literature, ranging from the snarky comments of Iowa traveler Bill Bryson to the more lyrical passages of William Least heat Moon. The course includes travel essays, road trip novels and films. We’ll also explore some interesting travel blogs and sites, and take our own road trip to record in travel blogs. (4 credits)

LIT 377 The Japanese Novel
By mid 19th century, Japan had shed its most treasured tradition, the way of the Samurai, and wholeheartedly embraced all things Western. The result of such rapid transformation has had profound effects on the Japanese culture. In this course, students will read postwar novelists Yukio Mishima and Yasunari Kawabata, both Nobel laureates, and modern Japanese novelist Haruki Murakami, not only considered Japan’s finest novelist, but possibly the “greatest novelist in the world” according to some. In addition to reading the Japanese novels (in translation), students will watch several Japanese films, make an oral presentation, take an exam, and write a critical analysis of a Japanese novel. (4 credits)

LIT 379 History of the English Language
This is a two-week course for those students pursuing a degree in education with a focus in literature. The course will be primarily self-directed with the following components: An outline of Albert C. Baugh’s standard work — A History of the English Language, a summary of the video Mother Tongue from the series The Story of English, and a presentation by the student on how the English language developed from its inception to the present. (2 credits)

LIT 380 Seminar on Special Topics
Periodically, seminars on special topics are offered by visiting professors or by resident faculty. (2–4 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)

LIT 497 The Senior Thesis
As students finish their development in Literature and Creative Writing, they are given the opportunity to demonstrate what they have learned by writing a sophisticated critical analysis of a literary work. This exit essay will demonstrate such skills as the ability to analyze deeply and argue convincingly, to do sophisticated research, to make best use of MLA Documentation, and to add Maharishi Vedic Science as a means to unveil the subtlest elements of a literary work. We will also spend time reading and discussing some of the most popular forms of literary theory as well as some documents that have
employed theory and Maharishi Vedic Science well. (4 credits) *Prerequisite:* consent of the instructor LIT 498 Internship in Literature.

NOTE: The purpose of this course is as an addition to the requirements of the major; therefore, the credits from this course cannot be included as part of the course work required for the major

**LIT 499 Directed Study**

(variable credits) *Prerequisites:* consent of Department faculty and the Academic Standards Committee
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
- Louis Biegeleisen, MS, Instructor of Physics

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 an exciting and comprehensive program in physics.

But the study of physics, as rigorous and compelling as it is as a field, also develops lifelong problem-solving, computational and computer-related skills that enable a graduate to excel in the most demanding and cutting-edge areas of study and professional work.

At MUM, the physics student is on the road to these discoveries. 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 prepares you for), physics study at MUM can be the ticket to 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.

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.

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.

**DEPARTMENTAL REQUIREMENTS**

**Graduation Requirements for the Minor in Physics**

To graduate with a minor in physics, students must successfully complete the following six 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
plus one additional 4-credit physics course at the level of PHYS 270 or higher

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 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. (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 Program, Director of the Institute for Natural Medicine and Prevention, Professor of Physiology and Health
• Paul Morehead, PhD, Associate Dean of the College of Integrative Medicine, Co-Director of MS Program in Maharishi AyurVedaSM and Integrative Medicine Distance Education Track, Assistant Professor of Physiology and Health
• Robert Keith Wallace, PhD, Chair and Professor of the Department of Physiology and Health, Co-Director of PhD in Physiology Program, Co-Director of MS Program in Maharishi AyurVedaSM and Integrative Medicine Distance Education Track, Founding President of MUM
• Liis Mattik, PhD, Associate Chair of the Department of Physiology and Health, Director of BA Program in Ayurveda Wellness, Director of BS Program in Pre-Integrative Medicine, Assistant Professor of Physiology and Health
• Jim Davis, DO, Clinical Director of Integrative Wellness Center, Adjunct Professor of Physiology and Health
• Sultan Salah, MS, Director of BA Program in Ayurveda Wellness Distance Education Track, Instructor of Physiology and Health
• Sanford I. Nidich, EdD, Professor of Physiology and Health and Education, Director of the Center for Social and Emotional Health and Consciousness, Senior Investigator, Institute for Natural Medicine and Prevention
• Antoine Nader, MD, PhD, Professor of Physiology and Health
• Maxwell Rainforth, PhD, Associate Professor of Statistics
• Dinesh Gyawali, PhD, Assistant Professor of Physiology and Health
• Komal Marwaha, MD, PhD, Associate Professor of Biology, Human Anatomy and Physiology
• Manohar Rao, BAMS, Assistant Professor of Physiology and Health
• Michael W. Lerom, MS, Assistant Professor of Chemistry
• Charlotte Bech, MD, Adjunct Assistant Professor of Physiology and Health
• Abraham Bornstein, MD, Adjunct Assistant Professor of Physiology and Health
• Barbara Grandpierre, 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, Adjunct 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** 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 will be earning their degree at MUM campus in Fairfield, Iowa.

  2. A Distance Education track where students will be taking courses on-line, except for the Wellness Consultant Practicum course, which is offered as two 2-week in-residence courses at MUM campus in Fairfield, Iowa.

- **The Bachelor of Science in Pre-Integrative Medicine** program prepares students for a range of graduate training in licensed health professions in integrative medicine.

- **The Master of Science in Maharishi AyurVeda and Integrative Medicine** is offered in two tracks:

  1. A Distance Education track 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, or as two 3-week clinical internships, or a combination of both. The duration of the degree program is three years of part-time study.

  2. A Distance Education for Medical Students track where students will be earning their MS in Maharishi AyurVeda and Integrative Medicine and a 4-year degree in the field of medicine (such as MD, ND, DO, or DC) simultaneously. The in-residence, full-time clinical practicum in this track is offered either as six 5-day intensives, or as two 3-week clinical internships, or a combination of both, in the Integrative Wellness Center at MUM campus in Fairfield, Iowa. The duration of the degree program in this track is three years of part-time study, with a specialization in Advanced Clinical Diagnosis and Treatment during the 3rd year.

Note: Currently MUM has a collaboration with the American University of Integrative Sciences School of Medicine (AUIS). *Information about admission to AUIS may be
found at https://www.auis.edu, but students from any medical school can apply to this track.

- **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 research degree program (PhD)** 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.

*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**

Courses in the Ayurveda Wellness 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.

In the Ayurveda Wellness program students get 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.

**Special Features of the BA in Ayurveda Wellness Program**

The BA in Ayurveda Wellness program trains students to prevent disease and promote health using the Maharishi Consciousness-Based Approach to Health – Maharishi AyurVeda. The program includes the study of human anatomy and physiology, including modern medical terminology, as well as the following areas of Maharishi AyurVeda:

- **Self-Pulse Reading:** Learning to detect balance and imbalance in the body 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.
• Herbology: 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.

Graduation Requirements for the Bachelor of Arts in Ayurveda Wellness, In-Residence Track

To graduate with the BA in Ayurveda Wellness, 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 48 credits of the coursework in the Ayurveda Wellness 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 or PH 352
• 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 or equivalent, and PH 263;  
  Ayurveda Wellness majors only
• PH 412 Maharishi AyurVeda Herbology (4 credits) Prerequisite: PH 262 or PH 252;  
  Strongly recommended: PH 430 or PH 352
• PH 430 Maharishi AyurVeda Wellness Consultant Training (4 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 352

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 120 Introduction to Modern Psychology
• 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)
• PH 380 Research Methods

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, 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 BAAW 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, Distance Education Track

To graduate with the BA in Ayurveda Wellness, 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 48 credits of the coursework in the Ayurveda Wellness 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 251 Basic Principles of Maharishi AyurVeda I (4 credits) Prerequisite: PH 101
• PH 252 Basic Principles of Maharishi AyurVeda II (4 credits) Prerequisite: PH 251
• PH 263 Maharishi Yoga Asanas (4 credits) Recommended: BIO 266
• PH 352 Basic Principles of Maharishi AyurVeda III (4 credits) Prerequisite: PH 252
• PH 323 Starting a Successful Practice in Ayurveda Wellness (4 credits)
• PH 324 Fundamentals of Effective Health Counseling (4 credits)
• PH 412 Maharishi AyurVeda Herbology (4 credits) Prerequisites: PH 262 or PH 252; Strongly recommended: PH 430 or PH 352
• PH 431 Maharishi AyurVeda Wellness Consultant Practicum (4 credits) Prerequisites: PH 263 and either PH 430 or PH 352

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.
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 additional 4 credits from among the following courses to complete the minor in Physiology and Health:
  - FOR 458 Ayurvedic Cooking (Prerequisite for undergraduates: FOR 103)
  - FOR 479 Maharishi Vastu Architecture (Prerequisite for undergraduates: FOR 103)
  - PH 120 Introduction to Modern Psychology
  - PH 330 Maharishi AyurVeda Course on Aromatherapy II (Prerequisite: PH 230)
  - PH 380 Research Methods

BACHELOR OF SCIENCE IN PRE-INTEGRATIVE MEDICINE

Courses in the Pre-Integrative Medicine program prepare graduates for a variety of paths in the field of health care, including modern and ancient scientifically proven approaches. In this program students get foundational knowledge in human biology, anatomy and physiology from both modern and Maharishi AyurVeda perspectives and study the areas of knowledge required for most modern (allopathic), osteopathic, naturopathic and chiropractic medical schools.

Prerequisite to admittance to the Pre-Integrative Medicine program is MATH161 Functions and Graphs I (Prerequisite: MATH153) or equivalent.

Special Features of the BS in Pre-Integrative Medicine Program

The BS in Pre-Integrative Medicine program prepares students for graduate training in the medical field, including integrative medicine. Integrative medicine is the practice of modern, conventional medicine integrated with natural, complementary and alternative medical practices.

The BS in Pre-Integrative Medicine program offers courses in the areas of study that are required for most modern (allopathic), osteopathic, naturopathic and chiropractic medical schools. These academic areas are generally included in the Medical College Admission...
Test (MCAT). Depending on the specific end goal, graduates with this bachelor’s degree may need to take post-baccalaureate courses to specifically meet the requirements of chosen graduate school.

The Bachelor of Science in Pre-Integrative Medicine program includes the following areas of study:

- General chemistry: Study of elements and their compounds, except those containing carbon and the physical and chemical aspects that shape their behavior.
- Organic chemistry: Study of carbon-containing compounds.
- Biology: Study of living organisms, molecular and cell biology, and human anatomy and physiology.
- Physics: Study of matter, energy, space, and time, and their interrelationships with one another.
- Psychology: Introduction to modern psychology.
- Biostatistics: Data analysis and evaluation of the validity of conclusions.
- Maharishi AyurVeda Self-Pulse Reading: Learning to detect balance and imbalance in the body by feeling the pulse and how to balance physiology through diet, and daily and seasonal routine.
- Maharishi AyurVeda Daily and Seasonal Routines: Study of how to align the individual life with the daily and seasonal rhythms of natural law.

Note: MUM general education courses offer necessary writing skills and math proficiency to prepare students to take these courses in the pre-integrative medicine program. Some medical schools and health care training programs may require additional coursework that is not required by the major. It is recommended that students consult with the admissions office of the school they are planning to attend after graduation to determine if they need to take additional classes.

Graduation Requirements for the Bachelor of Science in Pre-Integrative Medicine

To graduate with the BS in Pre-Integrative Medicine, 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 54 credits of coursework in Pre-Integrative Medicine program must be completed as follows:

- BIO 251 Principles of Biology (4 credits) Prerequisite: CHEM 111, or placement into CHEM 201, or approval of the instructor
- BIO 263 Molecular and Cell Biology (4 credits) Prerequisites: BIO 251 and CHEM 313
• 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
• CHEM 201 General Chemistry I (4 credits) **Prerequisites:** MATH 161 and one of the following: CHEM111, or placement through a chemistry placement test, or approval of the instructor
• CHEM 202 General Chemistry II (4 credits) **Prerequisite:** CHEM 201
• CHEM 203 General Chemistry III (2 credits) **Prerequisite:** CHEM 202
• CHEM 311 Organic Chemistry I (2 credits) **Prerequisite:** CHEM 203
• CHEM 312 Organic Chemistry II (4 credits) **Prerequisite:** CHEM 311
• CHEM 313 Organic Chemistry III (4 credits) **Prerequisite:** CHEM 312
• PH 120 Introduction to Modern Psychology (4 credits)
• PH 260 Maharishi AyurVeda Course on Self-Pulse Reading for Good Health (4 credits)
• PH 314 Biostatistics (4 credits) **Prerequisite:** MATH 153
• PHYS 211 Classical Mechanics, Thermodynamics, Waves and Fluids (4 credits) **Prerequisite:** MATH 162 and either CHEM 203 or approval of the instructor
• One of the following: FOR 458 Ayurvedic Cooking, or FOR 462 Maharishi Yoga Asanas, or FOR 479 Maharishi Vastu Architecture (2 credits) **Prerequisite for undergraduates:** FOR103

**Recommended elective courses:**
• PH 230 Maharishi AyurVeda Science-Based Aromatherapy I (**Prerequisite:** PH 260 or PH 352)
• PH 262 Maharishi AyurVeda Course on Diet, Digestion, and Nutrition (**Prerequisite:** PH 260)
• PH 263 Maharishi Yoga Asanas **Recommended:** BIO 266
• 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)
• PH 380 Research Methods
• PH 412 Maharishi AyurVeda Herbology **Prerequisites:** PH 262 or PH 252; **Strongly recommended:** PH 430 or PH 352
• PH 430 Maharishi AyurVeda Wellness Consultant Training (**Prerequisites:** PH 262 and BIO 266)
• PH 431 Maharishi AyurVeda Wellness Consultant Practicum (**Prerequisites:** PH 263 and either PH 430 or PH 352)

*Note: Students may fulfill some of their requirements for general chemistry, biology, organic chemistry, and physics 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 (27 credits) for a maximum of 90 total credits. CLEP, AP and IB credits for the courses listed above can be accepted after evaluation on a case-by-case basis.

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.

**Graduation Requirements for the Minor in Pre-Integrative Medicine**

To graduate with a minor in Pre-Integrative Medicine, students must successfully complete 20 credits of coursework as follows:
- PH 260 Maharishi AyurVeda Course on Self-Pulse Reading for Good Health
- BIO 220 Introduction to Biology or BIO 251 Principles of Biology (*Prerequisite:* CHEM 111, or placement into CHEM 201, or approval of the instructor)
- BIO 265 Human Anatomy and Physiology I (*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 (*Prerequisite:* BIO 265)
- Students are required to choose additional 4 credits from among the courses offered by the Department of Physiology and Health to complete the minor in Pre-Integrative Medicine.

**MASTER 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 degree is offered in two tracks:

1. A Distance Education track with 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.
2. A Distance Education for Medical Students track. Students will be earning the MS in Maharishi AyurVeda and Integrative Medicine and a 4-year degree in the field of medicine (such as MD, ND, DO, or DC) simultaneously. The MS part of this dual-degree program consists of online courses and six weeks of in-residence, full-time clinical practicums in Fairfield campus. The duration of this track is three years of part-time study, with a specialization in Advanced Clinical Diagnosis and Treatment during the 3rd year. After successful completion of the program, graduates will be awarded the MS degree from MUM.

*Note: Currently MUM has a collaboration with the American University of Integrative Sciences School of Medicine (AUIS) for a dual degree program.*

**Entrance Requirements for the Master of Science in Maharishi AyurVeda and Integrative Medicine – Distance Education Track**

To be admitted to the MS in Maharishi AyurVeda and Integrative Medicine - Distance Education track, 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 BA in Ayurveda Wellness, DE track who have completed the undergraduate level courses PH 251, PH 252 and PH 352 with grade “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.

Applicants with a Bachelor’s degree who have completed equivalent training in Maharishi AyurVeda with grade “B” or higher and obtained the knowledge offered in the first master’s level foundational course (PH 500) may be eligible to waive that course. Passing a qualifying exam is required.

Graduation Requirements for the Master of Science in Maharishi AyurVeda and Integrative Medicine – Distance Education Track

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 – 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 (Prerequisite: PH 500 or qualifying exam)
• PH 502 Musculoskeletal System (Prerequisite: PH 501 or qualifying exam)
• 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 510 Clinical Cases Intensive I (1 credit) Prerequisite: PH 501
• PH 511 Clinical Cases Intensive II (1 credit) Prerequisite: PH 505
• PH 512 Review, Clinical Cases and Examinations (1 credit) Prerequisite: PH 509
and three credits of
• PH 513 Ayurvedic Clinical Rotation: Integrating and Stabilizing the Practice of the Total Knowledge of Life in Perfect Health (variable credits, repeatable for credit)

Prerequisite: PH 512 or approval of the department

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.

**Entrance Requirements for the Master of Science in Maharishi AyurVeda and Integrative Medicine – Distance Education for Medical Students Track**

To be admitted to the MS in Maharishi AyurVeda and Integrative Medicine – Distance Education for Medical Students track applicants must be enrolled as students in a medical school, either allopathic, osteopathic, naturopathic, or chiropractic. The admissions committee will use discretion in accepting applicants according to the following criteria.

Applicants must:
• have a bachelor's degree or bachelor’s equivalent;
• be fluent in English (see “International Student Admissions” in “Admissions” portion of MUM catalog);
• be enrolled as a student in a medical school, either allopathic, osteopathic, naturopathic, or chiropractic;
• provide two recommendations from professors or colleagues; and
• provide education transcripts, or verification of degrees.

Since the MS in Maharishi AyurVeda and Integrative Medicine is a Consciousness-Based Education program, accepted students are required to learn the Transcendental Meditation technique before entering the program or at the beginning of the first semester as part of the program.

**Graduation Requirements for the Master of Science in Maharishi AyurVeda and Integrative Medicine – Distance Education for Medical Students Track**

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 for Medical Students track, all students must complete the following required courses totaling a minimum of 40 credits:

On-line Courses:

• PH 520 Principles of Prevention, Diagnosis and Treatment in Maharishi AyurVeda I
  (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 521 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 (Prerequisite: PH 520 or qualifying exam)

• PH 522 Musculoskeletal System: Enlivening the Structural Intelligence of the Body (Prerequisite: PH 521 or qualifying exam)

• PH 523 Cardiovascular/Renal System: Enlivening the Intelligence of the Fluid Systems of the Body (Prerequisite: PH 522)

• PH 524 Digestive System and Metabolism: Enlivening the Digestive Intelligence of the Body (Prerequisite: PH 523)

• PH 525 Pulmonary System and ENT: Enlivening the Life Breath (Prerequisite: PH 524)

• PH 526 Articular System: Awakening the Intelligence within the Gaps (Joints) of the Physiology (Prerequisite: PH 525)

• PH 527 Endocrine/Reproductive System: Enlivening the Inner Intelligence of the Hormonal Systems (Prerequisite: PH 526)

• PH 528 Hematologic/Immunologic System: Enlivening Ojas – the Subtle Essence of the Tissues Responsible for Health and Immunity (Prerequisite: PH 527)

• PH 529 Nervous System and Skin: Enlivening the Master Control System of the Body (Prerequisite: PH 528)

• PH 530 Pathophysiology, Introduction to Diagnosis and Treatment of the Musculoskeletal System (Prerequisite: PH 529)

• PH 531 Pathophysiology, Introduction to Diagnosis and Treatment of the Cardiovascular System (Prerequisite: PH 530)

• PH 532 Pathophysiology, Introduction to Diagnosis and Treatment of the Gastrointestinal System (Prerequisite: PH 531)

• PH 533 Pathophysiology, Introduction to Diagnosis and Treatment of the Pulmonary System (Prerequisite: PH 532)

• PH 534 Pathophysiology, Introduction to Diagnosis and Treatment of the Articular System (Prerequisite: PH 533)

• PH 535 Pathophysiology, Introduction to Diagnosis and Treatment of the Endocrine/ Reproductive System (Prerequisite: PH 534)

• PH 536 Pathophysiology, Introduction to Diagnosis and Treatment of the Immune / Hematologic System (Prerequisite: PH 535)
• PH 537 Pathophysiology, Introduction to Diagnosis and Treatment of the Nervous System and Skin (Prerequisite: PH 536)
• PH 540 Clinical Diagnosis and Treatment of Common Disorders of the Eight Organ Systems (Prerequisite: PH 537)
• PH 541 Advanced Clinical Diagnosis and Treatment of the Musculoskeletal System (Prerequisite: PH 540)
• PH 542 Advanced Clinical Diagnosis and Treatment of the Cardiovascular / Renal System (Prerequisite: PH 540)
• PH 543 Advanced Clinical Diagnosis and Treatment of the Gastrointestinal System (Prerequisite: PH 509)
• PH 544 Advanced Clinical Diagnosis and Treatment of the Pulmonary System (Prerequisite: PH 540)
• PH 545 Advanced Clinical Diagnosis and Treatment of the Articular System (Prerequisite: PH 540)
• PH 546 Advanced Clinical Diagnosis and Treatment of the Endocrine / Reproductive System (Prerequisite: PH 540)
• PH 547 Advanced Clinical Diagnosis and Treatment of the Immune / Hematologic System (Prerequisite: PH 540)
• PH 548 Advanced Clinical Diagnosis and Treatment of the Nervous / Integumentary System (Prerequisite: PH 540)

In-residence Courses:
Students are required to complete six credits of the clinical training as follows:

• PH 510 Clinical Cases Intensive I (Prerequisite: PH 528)
• PH 511 Clinical Cases Intensive II (Prerequisite: PH 537)
• PH 512 Review, Clinical Cases and Examinations (Prerequisite: PH 540)
• PH 513 Ayurvedic Clinical Rotation: Integrating and Stabilizing the Practice of the Total Knowledge of Life in Perfect Health (Prerequisite: PH 512 or approval of the department)

Students must take three credits of PH 513 to complete their 6 weeks of required clinical training.

Students in this track are eligible to petition to substitute PH 510, PH 511 and PH 512 with three weeks of PH513 for their clinical training. The decision will be made on case-by-case basis at the discretion of the department.

In addition, students must engage in at least 100 patient encounters from observing consultations, conducting one-on-one consultations, and participating in small group patient-oriented discussions.
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

Faculty and graduate students of Maharishi University of Management continue to advance the scientific understanding of the mechanisms and applications of natural, prevention-oriented methods for the health of the individual and society. This 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 objectives of the PhD in Physiology program are:

1. To give students training in research design and implementation at the doctoral level, leading to publication

2. To provide a program for advanced 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 thesis include:
• Aging
• Applied molecular biology
• Cardiovascular health
• Neuroscience applications in health
• Stress-related mental health disorders
• Evidence-based AyurVeda and Integrative Medicine

Entrance Requirements for the PhD Degree in Physiology

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

• Practice of the Transcendental Meditation program
• MS in Physiology or equivalent degree; MS in Maharishi AyurVeda and Integrative Medicine; MD, DO, or ND degree; or certification as a nurse practitioner, physician assistant, or equivalent health-professional training

Satisfaction of entrance requirements must be approved by the department’s graduate faculty, in addition to receiving approval by the director of the program and the dean of the graduate school.

Graduation Requirements for the PhD Degree in Physiology

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:

Core curriculum (16 credits or equivalent)
• PH 582 Research Methods or equivalent (may be fulfilled through transfer credit or directed study at the discretion of the program director) (4 credits)
• PH 583 Biostatistics or equivalent (may be fulfilled through transfer credit or directed study at the discretion of the program director) (4 credits)
• PH 596 Research Practicum (may be waived or equivalent coursework or experience substituted with permission of the program director (2 credits per semester, 4 credits total)
• STC 508 Science and Technology of Consciousness or equivalent. STC 108/109 or equivalent course may be substituted upon approval of the program director). (4 credits)

Completion of at least the first semester of the MS in Maharishi AyurVeda and Integrative Medicine or similar program will satisfy this requirement.

Optional elective courses
• MVS 504 Physiology, Consciousness, and Veda
• PH 520/521 Principles of Prevention, Diagnosis and Treatment in Maharishi AyurVeda
• PH 584 Maharishi AyurVeda Diet, Digestion, and Nutrition
• PH 585 Maharishi Yoga Asanas
• PH 586 (or MVS 461) Maharishi Ayurveda Self-Pulse Reading

Qualifying Examination
• PH 601 Preparation for Qualifying Examination Prerequisite: successful completion of the core curriculum (4 credits, may be repeated for credit)

Dissertation Proposal and Research
Upon successful completion of the Qualifying Exam, students will advance to PhD Candidate status. Students will then write their dissertation proposal.

• PH 700 Dissertation Proposal Preparation with formal defense before faculty (8 credits per semester — 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, 16 credits minimum — may be repeated for credit until dissertation is 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 with an open public forum for discussion.
• Acceptance of the dissertation by the Dissertation Committee, Graduate School and the Library.

COURSES

Undergraduate Courses
Descriptions of biology (BIO), chemistry (CHEM), and physiology (PH) courses in this degree program are listed alphabetically by course code below. Physics (PHYS) courses are listed in the Department of Physics section of the catalog.

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 251 Principles of Biology: Locating the Intelligence of Nature in Biology**

This course shows how the dynamic intelligence at the basis of life unfolds in terms of the principles discovered in biochemistry, cell biology, and genetics. These principles are seen to uphold the self-organization, maintenance, and evolution of life on Earth. Emphasis is placed on the expressions of intelligence, order, and integration found at different levels of biological organization. Main topics are: cells and how they transform energy, classical genetics, principles of evolution, and biological diversity and its evolution. Relevant current scientific research results are discussed, as appropriate. Public speaking presentations by students on topics of the greatest interest to them are a part of the course. Includes laboratory. Lab fee: $25 (4 credits) *Prerequisite: CHEM 111, or placement into CHEM 201, or approval of the instructor.*

**BIO 263 Molecular and Cell Biology: Exploring Biological Concepts and Methods at the Cell and Molecular Levels**

This course presents the foundations of (mainly human) biology at the cellular and molecular level. Topics include human DNA and gene expression, enzymes and metabolism, cell components, cell division, and specialized cells and tissues of the body. Students will discover the fundamental themes of natural law in the ordered structures of the cell and the DNA. The DNA is the blueprint of the human physiology. Subjects covered in this course include recent discoveries by Nobel Laureates. Public speaking presentations by students on topics of the greatest interest to them are a part of the course. Lab fee $25 (4 credits) *Prerequisites: BIO 251 and CHEM 313.*

**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 humeral; 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
CHEM 111 Fundamentals of Chemistry: Learning the Foundational Layers of Life
This course is designed to impart the fundamental concepts and principles of chemistry, such as atomic structure, nomenclature, stoichiometry, and chemical bonds for students interested in an introduction to chemistry, and those intending to enroll in the Pre-Integrative Medicine chemistry series – CHEM 201 et seq. – that need initial exposure to, or a review of, the basics of chemical problem solving and concepts. Relevant current scientific research results are discussed, as appropriate. Includes experiment demonstrations as well as public speaking presentations on fundamental concepts of chemistry. (4 credits) Prerequisite: MATH 153

CHEM 201 General Chemistry I: Pure Consciousness Underlies the Structure and Behavior of Matter
Topics include: measurement and dimensional analysis, basic properties of atoms and the periodic table, molecules, and ions, balancing chemical reactions, chemical reactions in aqueous solutions, electronic structure of atoms and periodicity, ionic bonds, and an introduction to covalent bonds. Relevant current scientific research results are discussed, as appropriate. Includes public speaking presentations on basic concepts of general chemistry and writing presentations on connections between the science of consciousness and chemistry. Weekly laboratory sessions are included. Lab fee: $25 (4 credits) Prerequisites: MATH 161 and one of the following: CHEM111, or placement through a chemistry placement test, or approval of the instructor.

CHEM 202 General Chemistry II: The Power of Consciousness is Infinite
Topics include: molecular theories of covalent bonding, intermolecular bonding, thermochemistry, the properties of gases, liquids, solids, and phase changes, solutions and their properties, chemical kinetics, chemical equilibrium, aqueous equilibria, and an introduction to acids and bases. Relevant current scientific research results are discussed, as appropriate. Includes public speaking presentations on basic concepts of general chemistry and writing presentations on connections between the science of consciousness and chemistry. Weekly laboratory sessions are included. Lab fee: $25 (4 credits) Prerequisite: CHEM 201

CHEM 203 General Chemistry III: Aham Brahmasmi—I Am Totality
Topics include: buffered solutions, titrations and pH curves, solubility products, chemical thermodynamics, and electrochemistry. Relevant current scientific research results are discussed, as appropriate. Includes public speaking presentations on basic concepts of general chemistry. Weekly laboratory sessions are included. Lab fee: $15 (2 credits) Prerequisite: CHEM 202
CHEM 311 Organic Chemistry I: Physiology Manifests the Pure Intelligence Located Within Carbon-Based Chemistry, Part One
Topics include: nomenclature and stereochemistry of alkanes and cycloalkanes, stereochemistry at tetrahedral centers, and an overview of organic reactions. Relevant current scientific research results are discussed, as appropriate. This course includes public speaking presentations on basic concepts of organic chemistry and writing presentations on connections between the science of consciousness and carbon-based chemistry. Weekly laboratory sessions are included. Lab fee: $15 (2 credits) Prerequisite: CHEM 203

CHEM 312 Organic Chemistry II: Physiology Manifests the Pure Intelligence Located Within Carbon-Based Chemistry, Part Two
Topics include: the nomenclature, synthesis, and reactions of alkenes and alkynes, nomenclature and stereochemistry of aromatic compounds, chemical analysis using various techniques, nucleophilic substitutions and eliminations of organohalides. Relevant current scientific research results are discussed, as appropriate. This course includes public speaking presentations on basic concepts of organic chemistry and writing presentations on connections between the science of consciousness and carbon-based chemistry. Weekly laboratory sessions are included. Lab fee: $25 (4 credits) Prerequisite: CHEM 311

CHEM 313 Organic Chemistry III: A Glimpse into the Infinite Organizing Power of Pure Creative Intelligence Expressed in Chemical Reactions
Topics include: nomenclature and chemistry of alcohols, phenols, thiols, ethers, and sulfides; and nomenclature, preparation, and nucleophilic addition reactions of aldehydes and ketones, the wide role of the carbonyl group in chemical reactions, such as: carboxylic acids, their derivatives, nucleophilic acyl substitution, carbonyl alpha-substitution, and condensation reactions. Relevant current scientific research results are discussed, as appropriate. This course includes public speaking presentations on basic concepts of organic chemistry and writing presentations on connections between the science of consciousness and carbon-based chemistry. Weekly laboratory sessions are included. Lab fee: $25 (4 credits) Prerequisite: CHEM 312

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 120 Introduction to Psychology: Discovering Total Natural Law within Oneself**
This course is designed to give students a foundation in the underlying principles and concepts of human development, learning, and human behavior. The study of consciousness is a central component of the course. Includes public speaking presentations on course topics. (4 credits)

**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: $30 Lab fee: $50 (4 credits) Prerequisite: PH 260 or PH 352

**PH 251 Basic Principles of Maharishi AyurVeda I - Understanding the foundations of Prevention and Health in Maharishi AyurVeda: Recognizing the Development of Consciousness as the Basis of Health**
This is the first in the series of three fundamental online courses in Maharishi AyurVeda. In this course, the ancient science of life will be introduced in the light of the beautiful contribution of Maharishi Mahesh Yogi. Under his guidance, this time-tested system of the holistic medicine – Ayurveda – regained its original purpose: enlightenment for every individual and invincibility for each society. Students will learn the unique language of Ayurveda and the basics of the ayurvedic pulse-reading technique in order to lay the foundation for their training as ayurvedic counselors. Topics include: definition of health from the ayurvedic perspective, prevention of diseases, the foundational principles of Ayurveda: Doshas, Agni, Srotas, Dhatus, Malas; Nadi Vigyan and qualities of a balanced pulse. (4 credits) Prerequisite: PH 101
PH 252 Basic Principles of Maharishi AyurVeda II - Exploring the basic principles of prevention, diagnosis and treatment in Maharishi AyurVeda: Establishing Perfect Balance in the Individual and Society
This course provides an in-depth study of the important principles of prevention and treatment in Maharishi AyurVeda. Special attention will be given to the pulse reading as the main diagnostic tool in Maharishi AyurVeda. Students will be enjoying deeper understanding of the pulse and learn other health assessment tools. Topics include: ayurvedic anatomy and physiology, digestion and metabolism, Ojas and Ama; qualities of an imbalanced pulse, mental health, and ayurvedic herbology. (4 credits) Prerequisite: PH 251

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: $10 (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 fee: $10 (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 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: $25 (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: $10 Lab fee: $25 (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 352 Basic Principles of Maharishi AyurVeda III - Integrating the Theoretical and Practical Aspects of Maharishi AyurVeda: Consciousness-BasedSM, Prevention-Oriented Health Care**

In this course students will continue to study the ayurvedic perspective on different aspects of health and disease, and will also be introduced to the key topics such as ayurvedic internal medicine (Kaya Chikitsa), Yoga Asanas, ayurvedic rejuvenation therapy (Pancha Karma), Vedic architecture (Sthapatya Veda), Vedic astrology (Jyotish), women’s health, heart health and other specialized mini-courses. The goal of this course is to finalize students’ theoretical understanding and experience of the basic concepts of Maharishi AyurVeda, to prepare them for educational activities in the world and for further practical training in consulting with clients. (4 credits) Prerequisite: PH 252

**PH 380 Research Methods: Discovering the Total Potential of Natural Law**

This course introduces the student to the rationale for evidence-based medicine and the knowledge and skills necessary for conducting scientific research. Topics include: the scientific method, selection of research topics, procedures for conducting literature reviews, experimental designs, statistical analysis, and interpretation of findings. Particular emphasis is placed on design of randomized controlled clinical trials, including selection of treatment and control groups, subject selection criteria, measurement of outcomes, and threats to validity. Students will have the opportunity to collect and analyze data as a practical component to the course. This course includes two presentations: one on a published research study in the student’s area of interest and the other on the student’s own research proposal. (4 credits)

**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. Lab fee: $50; Material fee: $25 (4 credits) Prerequisites: PH 262 or PH 252; Strongly recommended: PH 430 or PH 352

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 (4 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) Materials fee: $30 for the lab coat (required first time this course is taken, optional when repeated) Prerequisites: PH 430 or PH 352, 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 – Distance Education and Dual Degree Tracks
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 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 508 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. (3 credits) **Prerequisite:** PH 507

**PH 509 Nervous System and Skin: Enlivening the Master Controller 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 Clinical Cases Intensive I: 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:** either PH 501 or PH 528

**PH 511 Clinical Cases Intensive II: 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:** either PH 505 or PH 537

**PH 512 Review, Clinical Cases and Examinations: 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:** either PH 509 or PH 545

**PH 513 Ayurvedic Clinical Rotation: Integrating and Stabilizing the Practice of the Total Knowledge of Life in Perfect Health**

This in-residence clinical internship gives students an opportunity to integrate and stabilize the practical application of all the knowledge gained during the course of their studies by providing ayurvedic consultations to live clients under the supervision of experienced clinical faculty. The students’ didactic and clinical competence will be evaluated. (Variable credits, repeatable for credit) **Prerequisite:** PH 512 or approval of the department

**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

**Courses for the Master of Science in Maharishi AyurVeda and Integrative Medicine – Distance Education for Medical Students Track**

**PH 520 Principles of Prevention, Diagnosis, and Treatment in Maharishi AyurVeda I: Understanding the Foundations of Consciousness-BasedSM, 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. (4 credits) **Prerequisite:** Acceptance to MS program

**PH 521 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 continue to study digestive balance and imbalance, ayurvedic herbology, diagnosis, and pulse. New topics include ayurvedic internal medicine (Kaya Chikitsa), Yoga Asanas, rejuvenation and purification therapies (Pancha Karma), Vedic architecture, biorhythms and Vedic prediction (Jyotish), women’s health, and introduction to the Total Heart Health program. The course also provides an introduction to Traditional Chinese medicine and homeopathy. (4 credits) **Prerequisite:** PH 520 or qualifying exam
PH 522 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. (0.5 credit) Prerequisite: PH 521 or qualifying exam

PH 523 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. (0.5 credit) Prerequisite: PH 522

PH 524 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 ayurvedic anatomy and physiology of the digestive system and metabolism. (0.5 credit) Prerequisite: PH 523

PH 525 Pulmonary System and ENT: Enlivening Prana – the Life Breath
This course focuses on the anatomy and physiology of the pulmonary system and ENT from the perspective of Maharishi AyurVeda. (0.5 credit) Prerequisite: PH 524

PH 526 Articular System: Awakening the Intelligence within the Gaps (Joints) of the Physiology
This course presents the knowledge of the anatomy, physiology of the joints from the perspective of Maharishi AyurVeda, including techniques for prevention of joint disorders. (0.5 credit) Prerequisite: PH 525

PH 527 Endocrine/Reproductive System: Enlivening the Inner Intelligence of the Hormonal System in the Body
In this course the students will learn about ayurvedic endocrine physiology, ayurvedic obstetrics, gynecology, men's health, and pediatrics. The endocrine system, along with the nervous system, is the master controller of all physiological functions. (0.5 credit) Prerequisite: PH 526

PH 528 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 anatomy, physiology and prevention techniques for the immune and blood systems. (0.5 credit) Prerequisite: PH 527
PH 529 Nervous System and Skin: Enlivening the Master Controller 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. (0.5 credit) **Prerequisite:** PH 528

PH 530 Pathophysiology, Introduction to Diagnosis and Treatment of the Musculoskeletal System: Discovering How the Inner Intelligence of the Structural Systems Gets Disturbed, and How to Restore Balance
This course will provide the ayurvedic principles of pathology, and an introduction to the diagnosis and treatment of imbalance in the musculoskeletal system. Students will understand how the system can go out of balance, due to overuse, underuse or misuse of the system, and means of assessment of imbalance, and steps for prevention. (0.5 credit) **Prerequisite** PH 529

PH 531 Pathophysiology, Introduction to Diagnosis and Treatment of the Cardiovascular System: Discovering How the Inner Intelligence of the Fluid Systems Gets Disturbed, and How to Restore Balance
This course will provide the ayurvedic principles of pathology, and an introduction to the diagnosis and treatment of imbalance in the cardiovascular and renal system. Students will understand how the system can go out of balance, due to overuse, underuse or misuse of the system, and means of assessment of imbalance, and steps for prevention. (0.75 credit) **Prerequisite** PH 530

PH 532 Pathophysiology, Introduction to Diagnosis and Treatment of the Gastrointestinal System: Discovering How the Inner Intelligence of the Nourishing Systems Gets Disturbed, and How to Restore Balance
This course will provide the ayurvedic principles of pathology, and an introduction to the diagnosis and treatment of imbalance in the gastrointestinal system. Students will understand how the system can go out of balance, due to overuse, underuse or misuse of the system, and means of assessment of imbalance, and steps for prevention. (0.75 credit) **Prerequisite** PH 531

PH 533 Pathophysiology, Introduction to Diagnosis and Treatment of the Pulmonary System: Discovering How the Inner Intelligence of the Systems that Sustain the Life Breath – Prana - Gets Disturbed, and How to Restore Balance
This course will provide the ayurvedic principles of pathology, and an introduction to the diagnosis and treatment of imbalance in the pulmonary system. Students will understand how the system can go out of balance, due to overuse, underuse or misuse of the system,
and means of assessment of imbalance, and steps for prevention. (0.75 credit)  
Prerequisite PH 532

PH 534 Pathophysiology, Introduction to Diagnosis and Treatment of the Articular System: Discovering How the Inner Intelligence of the Gaps and Joints Gets Disturbed, and How to Restore Balance  
This course will provide the ayurvedic principles of pathology, and an introduction to the diagnosis and treatment of imbalance in the articular system. Students will understand how the system can go out of balance, due to overuse, underuse or misuse of the system, and means of assessment of imbalance, and steps for prevention. (0.75 credit)  
Prerequisite PH 533

PH 535 Pathophysiology, Introduction to Diagnosis and Treatment of the Endocrine/Reproductive System: Discovering How the Inner Intelligence of the Regulation and Reproduction Systems Gets Disturbed, and How to Restore Balance  
This course will provide the ayurvedic principles of pathology, and an introduction to the diagnosis and treatment of imbalance in the Endocrine/Reproductive system. Students will understand how the system can go out of balance, due to overuse, underuse or misuse of the system, and means of assessment of imbalance, and steps for prevention. (0.75 credit)  
Prerequisite PH 534

PH 536 Pathophysiology, Introduction to Diagnosis and Treatment of the Immune/Hematologic System: Discovering How the Inner Intelligence of the Body’s Strength and Immunity Gets Disturbed, and How to Restore Balance  
This course will provide the ayurvedic principles of pathology, and an introduction to the diagnosis and treatment of imbalance in the Immune/Hematologic system. Students will understand how the system can go out of balance, due to overuse, underuse or misuse of the system, and means of assessment of imbalance, and steps for prevention. (0.75 credit)  
Prerequisite PH 535

PH 537 Pathophysiology, Introduction to Diagnosis and Treatment of the Nervous System and Skin: Discovering How the Inner Intelligence of the Main Control, Sensing and Coordination Systems Gets Disturbed, and How to Restore Balance  
This course will provide the Maharishi ayurvedic principles of pathology, and an introduction to the diagnosis and treatment of imbalance in the Endocrine/Reproductive system. Students will understand how the system can go out of balance, due to overuse, underuse or misuse of the system, and means of assessment of imbalance, and steps for prevention. (0.75 credit)  
Prerequisite PH 536
PH 540 Clinical Diagnosis and Treatment of Common Disorders of the Eight Organ Systems: Knowing How to Restore the Inner Intelligence of the Eight Organ Systems
This course will present all the procedures for diagnosis and treatment of the main disorders of each organ system from the perspective of Maharishi AyurVeda. (6 credits)
Prerequisite: PH 537

PH 541 Advanced Clinical Diagnosis and Treatment of the Musculoskeletal System: Mastering the Knowledge of How to Restore the Inner Intelligence of the Structural Systems
This course provides advanced skills in clinical analysis of chronic and serious disorders of the musculoskeletal system. Students will investigate these disorders using advanced pulse diagnosis, health histories, interviews, tongue assessment, and analysis of more complex pathogenesis, via a distance education and webinar format. (0.75 credits)
Prerequisite: PH 540

PH 542 Advanced Clinical Diagnosis and Treatment of the Cardiovascular / Renal System: Mastering the Knowledge of How to Restore the Inner Intelligence of the Fluid Systems
This course provides advanced skills in clinical analysis of chronic and serious disorders of cardiovascular and renal systems. Students will investigate these disorders using advanced pulse diagnosis, health histories, interviews, tongue assessment, and analysis of more complex pathogenesis, via a distance education and webinar format. (0.75 credits)
Prerequisite: PH 540

PH 543 Advanced Clinical Diagnosis and Treatment of the Gastrointestinal System: Mastering the Knowledge of How to Restore the Inner Intelligence of the Nourishing Systems
This course provides advanced skills in clinical analysis of chronic and serious disorders of gastrointestinal system. Students will investigate these disorders using advanced pulse diagnosis, health histories, interviews, tongue assessment, and analysis of more complex pathogenesis, via a distance education and webinar format. (0.75 credits) Prerequisite: PH 540

PH 544 Advanced Clinical Diagnosis and Treatment of the Pulmonary System: Mastering the Knowledge of How to Restore the Inner Intelligence of the Systems that Sustain the Life Breath (Prana)
This course provides advanced skills in clinical analysis of chronic and serious disorders of pulmonary system. Students will investigate these disorders using advanced pulse diagnosis, health histories, interviews, tongue assessment, and analysis of more complex
pathogenesis, via a distance education and webinar format. (0.75 credits) Prerequisite: PH 540

PH 545 Advanced Clinical Diagnosis and Treatment of the Articular System: Mastering the Knowledge of How to Restore the Inner Intelligence of the Gaps and Joints
This course provides advanced skills in clinical analysis of chronic and serious disorders of articular system. Students will investigate these disorders using advanced pulse diagnosis, health histories, interviews, tongue assessment, and analysis of more complex pathogenesis, via a distance education and webinar format. (0.75 credits) Prerequisite: PH 540

PH 546 Advanced Clinical Diagnosis and Treatment of the Endocrine / Reproductive System: Mastering the Knowledge of How to Restore the Inner Intelligence of the Regulation and Reproductive Systems
This course provides advanced skills in clinical analysis of chronic and serious disorders of the endocrine / reproductive systems. Students will investigate these disorders using advanced pulse diagnosis, health histories, interviews, tongue assessment, and analysis of more complex pathogenesis, via a distance education and webinar format. (0.75 credits) Prerequisite: PH 540

PH 547 Advanced Clinical Diagnosis and Treatment of the Immune / Hematologic System: Mastering the Knowledge of How to Restore the Inner Intelligence of the Body’s Strength, Resilience, and Immunity
This course provides advanced skills in clinical analysis of chronic and serious disorders of immune and hematologic systems. Students will investigate these disorders using advanced pulse diagnosis, health histories, interviews, tongue assessment, and analysis of more complex pathogenesis, via a distance education and webinar format. (0.75 credits) Prerequisite: PH 540

PH 548 Advanced Clinical Diagnosis and Treatment of the Nervous / Integumentary System: Mastering the Knowledge of How to Restore the Inner Intelligence of the Main Control and Sensing Systems
This course provides advanced skills in clinical analysis of chronic and serious disorders of nervous and integumentary systems. Students will investigate these disorders using advanced pulse diagnosis, health histories, interviews, tongue assessment, and analysis of more complex pathogenesis, via a distance education and webinar format. (0.75 credits) Prerequisite: PH 540
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 Progression of Natural Law
Students will learn study designs most applicable to evidence-based integrative medicine and biomedical research. These include prospective vs. retrospective studies, observational vs. experimental studies, case-control, cross-sectional, cohort, quasi-randomized trials, randomized controlled trials, pragmatic clinical trials, systematic reviews, meta-analysis, and whole systems research. Particular emphasis will be placed on understanding each design in terms of internal and external threats to validity and how to choose an appropriate research design for a corresponding research question. Students will gain practice in critically reviewing biomedical research literature. Students will work on a research project throughout the course and submit a written paper at its conclusion. (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, general linear models (analysis of variance, analysis of covariance, and repeated-measures), survival analysis, and non-parametric statistics for one and two group designs. Students will work on a research project throughout the course and submit a written paper at its conclusion. (4 credits)

PH 584 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)

PH 585 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 586 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 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. Each student will produce a deliverable that is suitable for submission for publication or peer-review. The 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 and the peer review process. (2 credits per semester, 4 credits required as part of core curriculum) Note, this course may be waived or equivalent coursework or experience substituted with permission of the program director
**PH 601 Preparation for Qualifying Examination**
Students will take oral exams in research methods, biostatistics, and a substantive area related to their proposed dissertation research. A written paper will be submitted to the department faculty that further will show competencies in the above three areas.  
*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 Sustainable Living Department, Lecturer in Sustainable Living
- Appachanda Thimmaiah, PhD, Academic Director and Associate Professor of Regenerative Organic Agriculture
- John Collins, MA, Assistant Professor of Sustainable Living
- Lonnie Gamble, BS, PE, Assistant Professor of Sustainable Living
- Ralph Hearn, MA, Assistant Professor of Sustainable Living
- Devon Almond, PhD, Director of the Hawaii program in Leadership for Sustainability, Adjunct Assistant Professor of Sustainable Living
- Steve McLaskey, PhD, Adjunct Assistant Professor of Regenerative Organic Agriculture
- Jesse Dann, PhD, Adjunct Associate Professor of Sustainable Living
- Scott Vlaun, MA, MFA, Adjunct Instructor of Sustainable Living
- Yashaswini Sharma, PhD, Visiting Research Scholar and Professor of Regenerative Organic Agriculture

INTRODUCTION

The Department of Sustainable Living explores the leading edge of sustainability. Our curriculum and facilities grow and adapt with evolving global understandings about sustainability.

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.

What is needed is a holistic redesign to make the systems fundamentally cooperative, resilient, and regenerative. We support students to develop the ability to implement efficiency and substitution solutions in the short term, while also working toward a more deeply sustainable, radical system-redesign perspective.

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;

• 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 learning community. See Departmental Requirements below.

**Minor in Regenerative Organic Agriculture** – Practical foundation in organic agriculture principles and best practices. See Departmental Requirements below.

**MA in Sustainable Living** – Advanced deep sustainability training to confidently guide and coach individuals, organizations, and communities in incorporating sustainability into their core strategies, culture, actions, and outcomes. See Departmental Requirements below.

**Certificate Program**

**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.

**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-exploitive, 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.

- BA students earn 4-16 credits of internships in on-the-job training, working with organizations in sustainable agriculture, renewable energy, green buildings, 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 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 24 credits of electives from Sustainable Living designated courses:**

Credits of the electives may be concentrated in Sustainable Living learning communities to complete 1–2 modules of in-depth study or fulfill elective credits with stand-alone Sustainable Living courses of interest.

**plus 8 credits of Senior Sustainable Living Project:**

• SL—G401 Senior Project (8-12 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**

• Presentation of Senior Project, for graduating seniors

**plus**

• Completion of the SL Senior Survey, for graduating seniors

**Graduation Requirements for the Minor in Sustainable Living**

To graduate with a minor in Sustainable Living, students must complete 16 credits in a single learning community (module) plus one 4-credit SL elective for a total of 20 credits. Please see the “Requirements for Learning Communities” section below.

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 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 52 credits of course work as follows:

**16 credits from the following Regenerative Organic Agriculture core courses:**

• SL—A101 Organic Agriculture (4 credits)

• SL—A202 Biodynamic Agriculture (4 credits)
• SL—G101 Permaculture Design (4 credits)
• SL—G201 CCTS: Ecology (4 credits)
• SL—A340 Soil Science (4 credits)

**plus 6 credits of Regenerative Organic Agriculture introductory courses:**
• FOR 326 Consciousness and the Future of Agriculture (2 credits)
• SL—A200 Practices in Regenerative Organic Farming (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, students must complete the 28 credits of the ROA learning community (module). Please see the “Requirements for Learning Communities” section below.

**Graduation Requirements for the Certificate in Regenerative Organic Agriculture**

To receive a certificate in Regenerative Organic Agriculture, students must complete 31 credits as follows:

1 credit of Regenerative Organic Agriculture certificate prerequisite:

• MVS 100 The Transcendental Meditation Program (1 credit, waived if the student learned prior to enrolling)

4 credits of Regenerative Organic Agriculture of Forest Academies:
• FOR 326 Consciousness and the Future of Agriculture, STC part I (2 credits)
• FOR 330 Consciousness and the Future of Agriculture, STC part II (2 credits)

26 credits of Regenerative Organic Agriculture learning community:
• 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)

Requirements for Learning Communities

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 course sequences. We call these course sequences learning communities.

The sequential order of courses within a learning community (LC) 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 cohort system, in which a group of students move through a sequence of courses together, offers the advantage of both intellectual and social connections.

A key component of each learning community is an integrated project that students undertake throughout the LC, ending with a presentation of the project at the end of the LC.

Below is a listing of learning communities and the courses that comprise them. For details on each course including prerequisites, see the list of courses in numerical order in the “Courses” section below.

EV Technology (16 credits)
The 3-phase system of electrical energy distribution and application by Nikola Tesla is now widely used, but still not widely understood. The modern electric vehicle (EV), using a 3-phase rotating system, is like a movable micro-grid, mirroring the functions of our larger grid. By studying the mechanics and science behind EV functions, students will have a broad overview of how electricity is used in society.

The learning community offers theory, laboratory skills, and a project-based experience.
Upon completion, students will have a solid understanding in electric vehicle propulsion systems; automotive systems; electronics technology; motors and controls for electric vehicles and for industrial applications; sustainable energy storage; 3-Phase electrical energy distribution and applications; and EV as a movable micro-grid.

**16 credits of learning community courses:**
- SL—E300 EV Energy Storage (4 credits)
- SL—E302 Power Electronics and Electrical Machines 1 (4 credits)
- SL—E303 Power Electronics and Electrical Machines 2 (4 credits)
- SL—E304 EV Moveable Micro-Grid (4 credits)

**Regressive Organic Agriculture (28 credits)**
Combines classroom instruction and six months of fieldwork and workshops learning all facets of organic agriculture, from starting seeds to post-harvest field preparation.

**2 credits of learning community Forest Academy:**
- FOR 326 Consciousness and the Future of Agriculture, STC Part 1 (2 credits)

**plus 26 credits of learning community 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)

**Transformative Leadership for Sustainable Change (16-20 credits)**
In this learning community, you'll develop an ecology of transformative practices that support transforming mindsets, cultures, and social systems in service of sustainable change. Leading with the Whole Self and Whole System firstly involves becoming a more integrated person, bringing disparate elements of the self together, to contribute to the world in a uniquely-connective way. In support of this integrative approach to life, work, and service, you'll delve deeply into an individual inquiry that shapes a multidisciplinary “learning territory” specific to your deepest, highest most generative self. As a learning community, we'll study, apply, and move towards increasing literacy in models that describe underlying organizing principles of seemingly diverse and unrelated life experiences. One such model is the deep sustainability framework, which
asserts that efficiency and substitution are not sufficient to create a sustainable world. Another approach, integral theory, provides a robust framework to address the dilemmas of the 21st century in a sustainable manner. The learning community concludes by connecting your individual inquiry with cohort-wide learning through a capstone experience.

More specifically, in the first course, we aim to uncover your uniquely-connective place in an evolving world. In the second course, we cover various theoretical models of individual, organizational, and cultural change, including systems thinking, Spiral Dynamics, and non-violent communication, to create a theoretical foundation for how change happens. The learning community concludes with a project that brings together your Deep Commitment with a Clear Challenge for Systemic Impact.

Learning community prerequisite:
A minimum of 30 credits of university-level credit is strongly recommended. Students should also hold a growth mindset and be committed to exploring life possibilities.

8 credits of learning community courses:
• SL—P300 Transformative Leadership 1 – Ecology of Leadership for Life-Work (4 credits)
• SL—P301 Transformative Leadership 2 – Conceptual Maps for Change-Makers (4 credits)

plus optional 4 credits in Hawaii:
• SL—H102 Hawai'i Laboratory in Leadership for Sustainability (4 credits)

Note: Hawai'i Laboratory in Leadership for Sustainability is based at the Kohala Institute on Big Island, Hawaii. Prerequisite: consent by instructor. Students have the option of extending their stay for an internship in Hawaii; contact your academic advisor for more information.

MASTER OF ARTS IN SUSTAINABLE LIVING
Sustainability has become a global hot topic over the last 15–20 years, but its meaning has been increasingly diluted. Today, what often passes for sustainability is a vision of the future that settles for little more than making existing systems more efficient, including replacing toxic materials and practices with those that are less toxic. While useful and even necessary, these steps fall short of the change required to bring about a fully healed Earth and human civilization. What is needed is Deep Sustainability, which calls for restructuring entire systems rather than making only incremental changes.
Deep Sustainability is more fully defined as life in a thriving world in which we lead rich, celebratory, productive, and spiritually fulfilling lives without depleting each other, the other creatures that inhabit the earth with us, and the present and future environment that we all depend on. 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. This new paradigm is rapidly replacing the old paradigm that created the industrial age, neoclassical economics, and a mechanistic, reductionist worldview that values dominating nature more than cooperating with it.

The MA in Sustainable Living not only gives students the most profound knowledge, tools, and skills needed to understand Deep Sustainability, but also the experience of putting them to use in practical, real-world settings. The goal of this program is to learn how to integrate the elements of a sustainable community – including some rarely mentioned in other MA programs such as the development of consciousness, indigenous values, and cultural competence – into a dynamic, holistic framework that is self-reinforcing.

**Salient Features of the Master of Arts Degree in Sustainable Living**

- A foundational program of course work that gives all students exposure to the theories and practices of sustainability across the three main pillars of the field—social, environmental, and economic.
- The opportunity to study away from MUM at respected educational institutions that are on the cutting edge of the sustainability paradigm.
- A thesis project in which the student can explore ideas or tackle challenging problems that are of personal interest.

**Entrance Requirements for the Master of Arts Degree in Sustainable Living**

To enter the MA program, an applicant must have:
- A four-year bachelor’s degree; and
- An undergraduate cumulative grade-point average (cum GPA) of 3.0 or above.

**Graduation Requirements for the Master of Arts Degree in Sustainable Living**

To graduate with an MA in Sustainable Living (MA-SL), students must successfully complete all requirements for the master’s degree. Please refer to “Degree Requirements” in “Academic Policies.” As part of the requirements for the MA-SL, students must complete 48 credits of course work as follows:

*4 credits of MA-Sustainable Living Forest Academy:*

- FOR 500 Science of Creative Intelligence (4 credits)
plus 16 credits of foundational studies in sustainability:
A minimum of 16 credits from the following list. Additional credits can be taken as free electives in the MA program.
- SL—A340 Soil Science (4 credits)
- SL—G353 Sustainable Watershed Management (4 credits)
- SL—G335 International Education for Sustainability (4 credits)
- SL—G370 Environmental Law and Policy (4 credits)
- MGT 5010 Organizational Change for Sustainability (2–4 credits)
- MGT 5310 Sustainable Technologies (2–4 credits)
- MGT 5313 Socially and Environmentally Responsible Management (2–4 credits)

plus 16 credits of specialized study from the following courses:
- SL 560 Economics for Sustainability (2–4 credits)
- SL 580 Community Sustainability Project (4 credits)
- SL 599 Directed Study in Sustainability (4 credits)
- MGT 5165 Metrics for Sustainable Business (2–4 credits)
- MGT 5881 Sustainable Community Development (4 credits)

plus 8-16 credits of thesis project:
- SL 595 Field Work and Thesis Preparation (8 credits — may be repeated for credit up to a maximum of 16)

COURSES

Undergraduate 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. (4 credits) Course fee: $20

SL—A101 Organic Agriculture: Nourishing Civilization through Safe Food Production (offered every other year)
This course will explore how aligning agriculture with Natural Law can be accomplished using the basic principles of ecological agriculture at all stages of food production,
processing, and marketing. Students will examine the influence of conventional agricultural practices on ecosystems, environmental quality, and human health, as well as its impact on socio-cultural and economic aspects. The course also includes hands-on organic agriculture production practices such as soil management, composting, pest management, harvesting, storage, and marketing. Specific management requirements for important vegetable and field crops will also be discussed. The course also explores understanding of USDA organic standards and certification system. A case study on Bhutan as the first country going 100% organic by 2020 will be discussed in detail. Students spend approximately half of their time in class learning principles of crop production and half of the time applying their knowledge and gaining practical experience at the University’s organic farm and greenhouses or other organic farms. Course fee: $65 (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 (offered every other year)
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—A300 Consciousness-Based Agriculture and Environmental Relationships: Reuniting Man and Nature from Their Common Source in Consciousness**
This course, with its foundation in the Maharishi Vedic Procedures of Agriculture and Environmental Management, identifies our consciousness, feelings and perceptions with the culturing intelligence of total natural law, creating an intimate and personal relationship with the world around us. The course presents a “systems” or “field” paradigm approach to the world, allowing us to understand and perceive the environment as an alive, self-referral, self-contained system, whose foundation, at every level is always holistic. Participants will see themselves immersed in the web of life, and learn to see how holistic intelligence guides and directs the activity of all the parts of any system. The practical application of this intimate relationship with the living environment is more support of nature for agriculture and the ability to create sustainable interactions with nature. (4 credits)
SL—A301 Soil Ecology: Pure Consciousness Curving Back on Itself to Create and Recreate Soil
This course presents a journey into the soil beneath our feet — the true Last Frontier — so close, yet so poorly understood. Students will delve into the world of the below ground and learn what all those billions of creatures are doing down there. Soils are complex, constantly changing systems created by the combined actions of climatic, physical, chemical, and biological processes working on the underlying geological context. In this view of soil, there is no separation of soil from life: the very existence of soil depends on life and has no functional reality apart from it. An additional practical value of the course consists in learning how to utilize extensive online resources for the soils of the USA to guide the best sustainable practices for a chosen area. Lab fee: $65 (4 credits)

Prerequisites: SL—G101 and SL—G195

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

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*

**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*

**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*

**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*

**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*
SL — A401 Planning an Organic Farm: Natural Law as the Basis of Intelligent Planning
This course provides an opportunity for students to create a business plan for a small farm or farming-related business. Students will learn the planning process from exploring their values and goals to creating a vision and mission, and on to planning strategies for the financial, human resources, marketing and production aspects of their farm/business. Topics will include annual and perennial crops, value-added enterprises, income/cash flow, risk analysis and contingency planning. We will also examine the SPIN business models for small farms. The class will include field trips to local farms and food-related businesses. Course fee: $65 (4 credits) Prerequisite: one of the following: SL—A101, SL—A201, SL—A301, or consent of the instructor

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 — B201 Natural Building
Natural building is the art and science of using lightly processed, natural materials to create beautiful, durable, energy efficient structures. Students will learn how to combine traditional materials with contemporary ideas about sustainability. Topics include: the design process, materials and methods (straw/fiber, clay, earth, stone, wood and their combinations) building science for natural building, air and moisture flow, energy considerations, siting, and zoning. Course will include hands on work in a variety of materials, and may include the construction of a structure. Lab fee: changes yearly (4 credits) Prerequisite: SL—B101

SL — B202 EcoVillage Systems Integration (Offered every other year)
This eight-week course is split into two broad categories: EcoVillage utilities and EcoVillage services. The first four weeks are concerned with examining the basic utilities
of an EcoVillage, essentially its *hardware*. A methodology for approaching their integration into a greater systems-matrix, or framework, is discussed. The last four weeks are related to services. The services discussed are those dealing with Business Organization, Economics, and Social Services. Their integration, due to the ever-present human component, is much more difficult, and is in fact the greatest challenge for any community seeking to advance into the *ecosystem age*. This is the realm wherein the Maharishi Technology of Consciousness comes into its own. Course fees: additional fees for field trips, $200 for books (8 credits) *Prerequisites*: FOR 327

**SL — B203 EcoVillage Design Studio** (Offered every other year)
In the tradition of the studio, or atelier, the students will concentrate on Problem Seeking, and the subsequent development of a Program for the physical design of an EcoVillage project located on a real-life site. Course fees: $225 for field trips, $100 for books. (4 credits) *Prerequisites*: SL-B202, SL-G353

**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. In this course, we’ll introduce you to the new tools that are being developed that are revolutionizing and democratizing the way things are being made, and we’ll discuss how the innovation process is changing as a result. Tools like the Arduino open source micro controller, developed to make electronic systems development open to people like artists and farmers, 3d printers, computer controlled routers and laser cutters. 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. “Desktop manufacturing” is now possible, and like desktop publishing, audio, and video production, it will revolutionize the way things are made. 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 critiques. 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—B301 High Performance Green Building: Shaping the Future with Regenerative Design
Fifty percent of the energy that flows through the US economy is used in buildings. Rethinking the design of buildings is a key part of sustainability. In this course, students learn the basic principles of designing and constructing climate responsive buildings that create more energy and clean water than they use. The emphasis will be on using commercially available conventional building materials, although natural building materials will be introduced. (Building with natural, lightly processed materials is covered in Building 203: Natural Building.) Topics include: the design process, building science, energy, air and moisture flow in buildings, health effects of material selection, building components (foundations, wall sections, roof systems, HVAC, siding etc.), the development process, zoning, passive solar/renewable energy, and siting. Course fee: $65 (4 credits) Prerequisite: SL—G101

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—E201 Renewable Energy Technology
On earth, solar energy is the only energy source available to renew and offset the inevitable decline in usefulness as energy flows through manmade and natural systems. Sustainability is about regeneration and renewal of opportunity for future generation, and therefore switching from fossil fuels to solar energy is essential for sustainability. Direct solar (thermal and photovoltaics), wind, and flowing water are the core technologies necessary to power a sustainable economy. This course gives students the theoretical and practical background necessary to design and evaluate renewable energy technology that use solar energy directly (solar thermal and PV) and solar energy in the form of wind and flowing water. The course will include lecture, readings, films, guest speakers, field trips, hands-on work, and a team project. Course Fee: $65 (4 credits) Prerequisite: SL—E101, MATH 170, or consent of the instructor
SL—E300 EV Energy Storage
Introduction to electric vehicle (EV) battery packs. Students will pursue a project with the EV battery pack and gain a thorough understanding of the environmental effects of fossil-fueled energy systems compared with more sustainable systems. Topics include the fundamentals of energy conversion; energy storage systems such as thermodynamics, chemical energy storage and electro-chemical systems; chemistry of battery charging and discharging; and micro-grid and energy independence. Course fee: $65 (4 credits)
Prerequisite: MATH152 Elementary Algebra

SL—E302 Power Electronics and Electrical Machines I
Key components for EVs include motors, inverters/converters, sensors, control systems, and other interface electronics. This course is all about the science behind EV functions and maintenance, providing an understanding of the common features of energy storage mechanisms with EV and micro-grid/off-grid systems (ala. Amory Lovins - RMI). Topics include EV propulsion systems; control systems; electronics technology; analytic methods; and shop tools for EV maintenance. Project: lab for EV drive train to understand motor functionality. Course fee: $65 (4 credits) Prerequisite: SL—E300 EV Energy Storage

SL—E303 Power Electronics and Electrical Machines II
First-generation EVs used direct current (DC) motors. Today’s modern EVs convert the direct current to alternating current (AC) using an inverter, which then drives a 3-phase electric AC motor.
This course covers AC rotating machine theory; power electronic theory and application; EV chargers; and digital control systems. Students will also learn industrial applications of 3-phase motors, variable speed drives, and programmable logic controllers (PLC). Project: lab for 3-phase motor generator. Course fee: $65 (4 credits) Prerequisite: SL—E302 Power Electronics and Electrical Machines 1

SL—E304 EV Moveable Micro-Grid
The modern EV is a microcosm of how energy is generated and used in the electric grids of the world. Energy conversion, inversion, and distribution can be understood through studying the mechanics and science behind EV functions. This course gives students a broad overview of the landscape of electrical energy usage in society today. Topics include energy conversion and inversion for sustainability; on-board EV data acquisition essentials; introduction to CAN; sensors and sensor control systems; EV regenerative braking system; electric power steering system; electric HVAC and modular component cooling systems; smart grid; EV as a movable micro-grid; hydrogen fuel cell power systems for transportation and energy storage. Project: lab for CAN/PLC (programmable
logic controller) to understand computer controls for EV, micro-grid, and industrial processes. Course fee: $65 (4 credits)

SL—F250 Systems Thinking (Offered at least every other year)
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. (4 credits)

SL—F310 Social Justice and Sustainability
Is it possible to have a grossly inequitable society and still have it be “sustainable?” Is “sustainable development” really sustainable if it is undertaken within a context of economic injustice? Are modern western societies and globalization just a new face on an old, unsustainable theme: empire? We will attempt to answer these questions, and raise several others, in this course. This class will explore concepts like “environmental racism” and disciplines like “eco-pedagogy” as it looks at the role that social justice should play within the project of sustainability. We will read authors like Vandana Shiva, David Orr, and Paulo Freire. Also, students will conceive and direct a project that addresses social justice issues within the community of Fairfield. Course fee: $65 (4 credits)

SL—F405 Deep Sustainability
Deep Ecology is a movement in environmental philosophy that differentiates itself by asking deeper questions about the assumptions active in our modern thinking and draws from deeper sources—including Eastern and Indigenous religions and philosophies—in order to understand the human role in the current ecological crises and to generate truly novel solutions. Deep Sustainability, or the particular kind of Deep Sustainability that is being developed here at MUM, is that kind of thinking applied to the sustainability movement. It questions the commonly held beliefs of our scientistic and economistic worldview and it looks to the sources of human Being, like the idea of “purpose” or conceptions of “consciousness,” to guide our understanding into the future. Using Daniel Quinn’s book Ishmael as the primary text, but also looking at other theories of deep sustainability, this course in Deep Sustainability will challenge people to identify the worldviews they inhabit, to attempt to shift their paradigm towards evermore sustainable
versions, and to reach out to people with other belief systems as a way of creating the new planetary consciousness that is necessary for the 21st Century. (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—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—G200 Building Biology: Learning to Restore the Balance between Nature, Ourselves, and the Built Environment (Offered according to demand)
This course examines the link between building practices and occupants’ health and well-being. Founded in Germany over 30 years ago, Building Biology not only encompasses sustainable and green practices, but also goes beyond them. It focuses on “building for life,” or how to optimize living conditions by applying healthy building and remodeling principles to living spaces. Students will find out how current construction practices impact the health of occupants and will gain skills to identify, analyze, and solve problems dealing with electromagnetic radiation, high-frequency radiation, indoor air quality, and water quality. They will also learn about natural building and remodeling practices through home inspections, case study reviews, and teleconferences with Building Biologists from around the country. The course looks at healthy buildings from different perspectives: a) elements — how air, water, matter, and energy impact the indoor environment, including health risks and remedies, b) design — what design features promote a healthy building, and c) standards — applying Building Biology Healthy Home Standards. 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. Lab fee: $65 (4 credits)

SL—G210 Slow Food, Slow Cities, Sustainability: The Right to Pleasure and Conviviality for All
The slow movement is a cultural shift to increase human well-being and happiness by reminding us to slow down and get involved in the world that we live in. This course explores reinventing the food system, and our personal and collective relationship to food by learning how to eat well from a 100-mile radius. From top chefs, farmers, and food activists throughout the region, students explore how to go from consumer to co-producer by learning to bake artisan bread, cook, and garden. Students learn the meaning of Wendell Berry’s statement “Eating is an Agricultural Act,” as well as Carlo Petrini’s “Agriculture is a Eco-Gastronomic Act”. In conventional gastronomy, foods are seen as more desirable, the more exotic and expensive they are, without regard to the earth or human communities. In ecogastronomy, the desirability of foods are in relation to their connection to community, their contribution to ecological wholeness, to living wages for farmers, and affordable costs to those who eat. Through all of this, we will critique ways in which the development of a sustainable food system could contribute to inequity, both within communities and globally. But also uncover how eco-gastronomy and the slow movement’s good, clean, and fair approach to reinventing the food system can make major contributions to food sovereignty. Course fee: $65 (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—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 Ethnobotany: How Indigenous Peoples Use Plants for Culinary, Spiritual, Medicinal, and Other Purposes to Maintain Traditional Connections with Natural Law
Plants have met a large proportion of man’s physical, emotional, and spiritual needs for ages and continue to do so today, though often in new and less obvious ways. The broad scope of such use is the subject of this course, covering not only food and shelter but also clothing, herbs and spices, ornamentation, medicine, soaps, cosmetics, rope, and rubber, as well as artistic and spiritual uses. Course includes a trip to The Field Museum in Chicago. $65 course fee (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—G335 International Education for Sustainability
This course examines principles of sustainability to develop school and community-based educational programs that address interrelated social, ecological, and pedagogical issues. Students will collaborate with educators in the USA and Africa to design short, functional educational units that address sustainability problems in local and international settings. Field trips will be arranged to local schools and regional community development projects that utilize principles of sustainable development. This course will be of interest to all students who hope to make practical contributions to sustainable community development. (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—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
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 annually)
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—H102 Hawai’i Laboratory in Leadership for Sustainability: The Nature of Life is Growth

Ma’u, the Hawaiian word for sustainability meaning perpetual well-being is the lens through which this course explores leadership for sustainability. Through this lens, we explore the perpetual well-being that facilitates the growth of personal, cultural, social, and planetary life. This course cultivates an awareness of the leading-edge cultural worldview necessary for flourishing in the 21st century and beyond. In this evolutionary age, individual mindsets facilitate intercultural development and planetary flourishing. Held in the vibrant, life-affirming personal, cultural, social, and planetary context of rural Hawaii, students explore unique strengths, passions, and life directions in service of a deeply sustainable, evolving world. Experiential learning through field visits with sustainability and cultural practitioners provide models for life possibilities. These activities include visiting an intentional community, being oriented to Hawaiian cultures and sustainability, receiving training in interpersonal communication, conducting service work with native Hawaiian non-profit organizations, and planting sandalwood trees to offset our carbon footprints. Course fee: additional expenses apply. (4 credits)

Prerequisites: Approval of instructor. Students should hold a growth mindset and be committed to exploring life possibilities. An application process will address this requirement.

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—P300 Transformative Leadership 1 – Ecology of Leadership for Life-Work: Life is Found in Layers
This “book-end” course aims to uncover students’ uniquely-connective places in an evolving world. With the understanding that 21st century leadership firstly involves managing personal energies and becoming a more integrated person, this course explores the ecology of leadership for life-work. A Dharma Academy, of sorts, this course aims to “wake up” students to life-work potentialities and then offer initial support to integrate life, work, and service. The course begins and closes with a one-day field visit to the Iowa State Historical Museum in Des Moines. Students also craft an individual inquiry that shapes their “learning territory” for the entire program. Course fee: $60 (4 credits)

SL—P301 Transformative Leadership 2 – Conceptual Maps for Change-Makers: Being and Becoming Change Agents
The dilemmas of the 21st century impact every aspect of life, and the well-being of ourselves and our communities are intricately tied to the patterns and systems which we are part of. The deep sustainability framework used in this course 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 study models that describe underlying organizing principles for the seemingly diverse and unrelated life experiences. These models can inform decision-making to reach a destination. Course fee: $60 (4 credits)

SL—P303 Integral Theory: A Conceptual Framework for Transformative Practice
Integral theory provides a robust framework to address the dilemmas of the 21st century in a sustainable manner. By empowering the whole person and the whole system, this approach probes deeply the relationship between self, culture, society, and nature to facilitate the development and transformation of individuals, organizations, and communities. In this course, we apply integral theory to ourselves, in relationship, and in our service to the world. Other topics include transforming mindsets, cultures, and social systems in service of sustainable change and transformative initiatives, locally and globally to address the environmental, cultural, and social challenges of the 21st century. Course fee: $30 (4 credits) Prerequisite: SL-P301

SL—P304 Integrative Capstone Project
This “bookend” course provides a personal context for the learning community by integrating individualized and collective learning in a uniquely-connective manner. In the opening part of the learning community (Ecology of Leadership for Life-Work), students
identify an individual inquiry that shapes the learning territory of the program. Throughout the program, students’ experiential learning and research projects support this individual inquiry. The closing part of the learning community connects this individual inquiry with cohort-wide learning through a capstone experience. Essential to this student-led, faculty-facilitated course is an openness to evolving personal leadership into a uniquely connective life-work anchored in the principles of transformative leadership for sustainable change. The project itself brings together students’ Deep Commitment with a Clear Challenge for Systemic Impact. Preparation for this course begins with the Ecology of Leadership course, and finishes with this course dedicated to the completion of a project that supports students’ life directions. (4-credits) Prerequisite: SL-P303

SL—P404 How to Create Social Change (Offered every other year)
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)

Graduate Courses

Please refer to the Sustainable Living BA course listings for courses designated SL-Gxxx or SL-A.xxx.
Please refer to the College of Business Administration MBA course listings for courses designated MGT xxxx.

SL 560 Economics for Sustainability
This course will first provide you with an understanding of the assumptions of neoclassical economics that have resulted in unsustainable patterns of production and consumption. You will then explore the alternative worldviews, purposes, and principles essential for economic sustainability by exploring the ethical, philosophical, and spiritual roots of ecological, social, and economic sustainability. The class will involve new ways of thinking, knowing, learning, and being in the world: ways not only essential for avoiding a global ecological catastrophe but also for progress toward a new and better future. (2–4 credits)
SL 580 Community Sustainability Project
Students may work individually or in teams to design and implement specific projects in Fairfield in cooperation with the Sustainability Coordinator of the city or other municipal entities. Or the projects may tackle challenges on the MUM campus or in rural areas of Jefferson County. In these projects, students will apply the skills, knowledge, and tools they learn in the classroom to real-world situations that will have lasting impact. (4 credits)

SL 595 Thesis Project
In this course of independent study, the student formulates an implements a plan for field work and/or research on a topic of interest in sustainability. This work will include the preparation of a final report or theses of publishable quality. (4 credits — may be repeated for credit up to a maximum of 16 credits)

SL 599 Directed Study in Sustainability
Students in this course must propose a plan for directed study to a member of the graduate faculty of MUM and have that plan approved by the dean or chair of the Department of Sustainable Living. (4 credits — may be repeated once for credit)
INDIVIDUALIZED MAJOR

In the event that no single major alone satisfies a student’s interests and career goals, the student may, with the guidance of two members of faculty, 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. These standards are given below.

INDIVIDUALIZED MAJOR STANDARDS

As a first step, students interested in an Individualized Major should contact the Program Director for a discussion and to obtain detailed guidelines. Students then declare their major to be ‘Individualized’ and go on to complete an Individualized Major plan by the end of their third semester at the University. Students transferring in 70 plus credits can start working on their degree plan on arrival at MUM. Any student at any time can declare for the Individualized Major. 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.

As an introduction, here are some general guidelines.

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.
**Academic Credits**

An Individualized Major has to have at least 48 credits, with one concentration of at least 16 credits taken from one area, and preferably one major. At least half of the courses in the major must be at the 300-level or above. Up to 24 transfer credits can be used. Only eight credits of directed studies and eight credits of internships are permitted over and above the senior project described below. Individualized Major degrees are normally BA’s. But if more than half your major consists of science courses then it becomes a BS.

**Faculty Supervision**

Typically, two subject-area faculty members from different departments must 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 will include an integrative project to be completed in a one- or two-block Senior Project, pursued at the end of the plan. The project is a sustained, focused exploration of a selected topic supported by the plan, 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.

**Reporting**

In addition to working with the subject-area advisors, each student’s main academic advisor will be the Director of the Individualized Major Program.
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 descriptions below or in their respective sections of the catalog.

**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)

See also
**ESS 325 Rotating University: Leadership in Adventure Sport**
**WTG 410 Travel Writing**
**MC—D336 Travel Photography and Video**
**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

Our distance education programs offer online degree programs, credit courses, and non-credit courses to cater to the needs of busy learners who might have responsibilities that do not permit traditional campus attendance. Maharishi University of Management’s distance education program offers a variety of courses for both credit and noncredit, with a portfolio that continues to expand. 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 here: https://www.mum.edu/mum-online/course-registration/mum-online-for-credit-course-application.

Note: A maximum of eight credits of Distance Education courses may later be applied to a degree program.

Transcendental Meditation technique
Students enrolled in online education, like all students at 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 correct practice of it.

Online For-Credit Attendance, Participation and Expectations Policy
Online students will be automatically withdrawn if not logged on to the online course by Day 7 by 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 and instructor has notified the MUM Registrar and de@mum.edu.
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, discussions, quizzes, and communication with the instructor.

Policy for Incomplete Work in For-Credit Courses
If a student cannot meet the deadline for submission of academic work, then they must agree to a Late Work Contract in order to submit the work late. For more information, see “Late Work Policy” in the “Academic Policies” section in this catalog.

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, and all students are given a grade at that time 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 the interim 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 student 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, Participation and Expectations Policy stipulated above are likely to receive a No Credit for the course and are not eligible 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 Academic Programs.

**Online For-Credit Course Withdrawal and Refund Policy**
Students needing to withdraw from an online credit courses 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 Withdrawals are on a per semester % attended basis:
https://students.mum.edu/finances/reductions-in-charges-and-financial-aid/

**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.)

**Readmissions**
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.
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) (Maharishi School students take STC 109) (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) or ED 420 Neurophysiology of Learning and Development in Children (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 in a major may be transferred.)

Undergraduate students may declare a major at any time, but in order to continue their registration, students must declare 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.

Students must attain a specific GPA in the CS courses CS201, CS203, and CS221 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*

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 programs are required to take 2 Forest Academy courses.
- Students in 1 ½-year or longer programs are allowed to miss one Forest Academy over this time. If more than 1 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 requirements 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 Biostatistics (PH 314, prerequisite MATH 153)
Option 5. Passing Quantitative Literacy (MATH 1xx, no prerequisites, under development), or
Option 6. Achieving a score of 4 or above on the College Board Advanced Placement Test in Calculus AB or BC, or
Option 7. Achieving a score of 60% or above in the CLEP Calculus Test, or
Option 8. Achieving a score of 5 or above on the IB HL Mathematics Exam, or
Option 9. 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, Media and Communications, and 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.

BS in AYURVEDA WELLNESS: MATH 1xx Quantitative Literacy, or MGT 203 Personal Finance, or MATH 200 Mathematics and Infinity, or MATH 153 Intermediate Algebra, recommended; other options acceptable, except not MATH 266.

BA in BUSINESS ADMINISTRATION: 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 1xx Quantitative Literacy or MGT 203 Personal Finance, recommended; other options acceptable
BA or BS in INDIVIDUALIZED MAJOR: Any option in the list, as appropriate
BA in LITERATURE: MATH 1xx Quantitative Literacy or MGT 203 Personal Finance, recommended; other options acceptable
BA in MAHARISHI VEDIC SCIENCE: MATH 1xx Quantitative Literacy or MGT 203 Personal Finance, recommended; other options acceptable
BS in MATHEMATICS: The requirement is automatically satisfied by math courses in the major itself
BA in MEDIA AND COMMUNICATIONS: MATH 266 Geometry for the Artist recommended; other options acceptable
BS in PRE-INTEGRATIVE MEDICINE: PH 314 Biostatistics required; other options not 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 not 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:
1. Passing MUM’s mathematics placement test at any of these levels, or
2. Taking and passing any MUM mathematics course, or
3. 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
4. Achieving 60% or above in the CLEP Calculus Test at most two years prior to entry to MUM, or
5. 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, Pre-Integrative Medicine, 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 (including MATH 170 Math for Sustainable Living),
   • 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, Literature, Writing, Maharishi Vedic Science, Media and Communications, Regenerative Organic Agriculture, Sustainable Living, and Writing, provided they:
  o already satisfy one of the nine options in the list of options for satisfying the general education requirement in mathematics above, or
  o 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 1/2-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
*(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 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 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 individual 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 1½-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 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.

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 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 on line at www.mum.edu/dissertation. 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 as transfer credit toward its bachelor’s degree programs credit earned at any institutions accredited by the Higher Learning Commission, or any of the U.S. regional accrediting associations (New England, Middle States, Southern, North Central, Western, or Northwest), or at international universities of comparable accreditation. Additional international universities may be approved on a case-by-case basis by the Registrar in consultation with the Dean of Academic Programs. 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. Credits not approved as satisfying major requirements may be applied to elective credits toward Maharishi University of Management degrees.

Undergraduate degree students can apply transfer credits to cover the general education requirements, electives, and up to half the course work in the major for a maximum of 90 total credits. Transfer credits are accepted for courses completed with a grade of “C” or higher. Total transfer credits accepted from other institutions are 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

Undergraduate students who earned credit by examination through the College-Level Examination Program (CLEP) or College Board Advanced Placement (AP) or International Baccalaureate and whose scores are 4 or higher for AP and 50 or higher for CLEP, or 5 or higher for IB Higher Level exams 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. Graduates of Maharishi School of the Age of Enlightenment or the Ideal Girls School may receive 2 credits of Advanced Placement credit for each year of attendance at Maharishi School or the Ideal Girls School for 10th grade through 12th grade.

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. a minimum of one-and-one-half years on campus
c. MVS 100 or ED 101 Instruction in the Transcendental Meditation Program
d. STC 108 or 109 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.
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 1 1/2 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 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 60 credits of course work (at least 1 1/2 years) 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.

**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 was 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 6
weeks 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.

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 Academic Programs.

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.

**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 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 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 near 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 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 academic record.
Withdrawing from a Course

Once a course has begun, and after the deadline above 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 fifth day of the 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 their petition is denied, and if the student stops attending the course, the student would receive an NC (no credit).

Exception for illness or family emergency

A student may request a WH (health-related withdrawal) from their professor for an approved withdrawal due to illness or family emergency at any time during a course. The professor may ask the student for documentation (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 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 need to 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, have been suspended from the University, or who 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 faculty
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 skip 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 of 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 be supervised by a faculty member and approved in advance by the Department, and the Academic Standards Committee. Internships must meet the MUM Internship Guidelines. Internship forms are available at the Enrollment Center or online at https://students.mum.edu/appeals-petitions-proposals-and-other-forms-you-may-need. The form must be completed and submitted to the Registrar (Enrollment Center office, basement Dreier Building) at least four weeks before the internship is to start. Forms submitted after the block begins may 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.

**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 tickets 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 in the course. (A session is a morning or afternoon meeting of a Day program course.) 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
If a student must miss more than two sessions for a 1-credit course, four sessions for a 2-credit course, six sessions for a 4-credit course, or eight sessions for a 6-credit course due to illness or family emergency, the student will most likely be asked to withdraw from the course. 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 health care 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.*

The Associate Dean of Students is notified by the instructor in these situations. If a student has special circumstances justifying continued participation in a class despite exceeding the allowable absences, the student will need to submit a petition to the Academic Standards Committee, which will determine if the student is allowed to continue.

Unexcused Absences
Repeated unexcused absences are a violation of the code of student behavior and lead to a reduced grade. Students with repeated unexcused absences are subject to the following additional actions.

If a student misses six sessions of a 6-week class, four sessions of a 4-week class, or 2 sessions of a 2-week class for reasons other than the allowable sickness or family emergency, faculty will place the student on Attendance Alert 1. If the student then has another unexcused absence in that class, the student will be invited to a conference with an Associate Dean of Students, who will place the student on Attendance Alert 2. If a student on Attendance Alert 2 misses yet another class without proper excuse, the Associate Dean of Students will call a Student Support Meeting, which may include further remedial action.

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.

Double Majors
Undergraduate students may major in two disciplines by satisfying the departmental requirements for each, though they need only complete one final 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.

**Enrollment of Undergraduates in Graduate Courses**

In their senior year, with the approval of the academic department and the Dean of the Graduate School, students may take up to four graduate level classes (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 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 a degree, but they may be eligible for financial aid.

**Readmission**

Students who have been away from the University for one semester or longer, 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 or Certificate Courses  
1xx and 1xxx  Undergraduate First-Year Courses  
2xx and 2xxx  Undergraduate Upper Division Courses  
3xx and 3xxx  Undergraduate Advanced 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
WH  Withdrawal due to health or family emergency
WU  Withdrawal Unauthorized
PW  Pass/Waive
AU  Audit
H  Honors
R  Course was repeated or replaced

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 for undergraduate students and a “B” or better for academic courses for graduate students.

**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.
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 Academic Programs.

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.

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 CS 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 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 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 an NC, and the department head may decide to give a student a “No Credit” for a course. The instructor will notify the Dean of Academic Programs 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.

Consequences for plagiarism vary with the levels of severity described below. Three factors considered in the determination of severity are 1) length of the citation, 2) whether the misrepresentation was intentional or not, and 3) whether the plagiarism was substantive or semantic only (using others’ words but not their ideas) or both.

**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 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.

*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 one mistake in the department in which the student received a first warning
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 Academic Programs.

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 two 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 ARE ASKED TO 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.

ADMISSIONS FOR NON-DEGREE SEEKING PROGRAMS

1. Guest Students
Applicants with a specific interest into a particular subject, who do not want to take an entire university program, it is possible to participate in up to 8 credits of university courses without enrolling as a student.

As a guest student, they will participate in class but will not receive credit or a transcript after completing their study. If a guest student later become 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. Guest students will need to arrange their traveling under a tourist visa. A guest student can apply anytime for a single course for 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 your chosen course starts.
Criteria for Guest Student Admissions

- **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 guest 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 guest 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 guest student depends on the teacher of the course.

2. Non-Degree-Seeking 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 ESL Program Admissions

- **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 the Certificate in Regenerative Organic Agriculture Program Admissions

- **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.
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. The University’s college code number 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 card. 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.

**SPECIAL PROGRAM ADMISSIONS**

Special admissions procedures and requirements for the special courses and programs offered by Maharishi University of Management are described below.

**The Science and Technology of Consciousness**

This course is the foundation for all University undergraduate programs. The Science and Technology of Consciousness course (STC 108/109) is the first course for any undergraduate student coming to the University; however, it can be taken by any interested person (even if not enrolled in a degree program) whenever it is offered, by applying through the Office of Admissions.

**The Science of Creative Intelligence Course**

This course is the foundation for all University graduate programs. The Science of Creative Intelligence course (FOR 500) is the first course for any graduate student coming to the University; however, it can be taken by any interested person (even if not enrolled in a degree program) whenever it is offered, by applying through the Office of Admissions.

**Special Students**

- **Undergraduate Guest Students** — Anyone not seeking a degree may take regular undergraduate courses for up to one year. These individualized programs offer the advantages of a Maharishi University of Management education to those who do not wish to enroll as degree-seeking students. Credit is generally transferable to other universities.

- **Graduate Guest Students** — Students desiring to take additional study beyond the bachelor’s degree, without intending to earn a graduate degree, may apply for admission for non-degree status. Students may transfer up to 8 credits earned in this non-degree status to a regular degree program with the approval of the Academic Standards Committee, the academic department, and the Dean of the Graduate School. For the master’s degree, the final 40 credits generally must be earned at the University in a degree-seeking status. For the doctoral degree, credits earned while in this non-degree status will be reviewed by the student’s department faculty and/or advisory committee for possible acceptance as part of the requirements for the degree. Special graduate students
generally begin their program of study with the Science of Creative Intelligence course (FOR 500).

**Special Maharishi Vedic Science Studies Program**

The Special *Maharishi Vedic Science* Studies program is offered by Maharishi University of Management in conjunction with the Maharishi Vedic Education Development Corporation (MVED) through reciprocal credit arrangements. Courses offered include “Transcendental Meditation-Sidhi Course” and “Transcendental Meditation Program Teacher Training, Parts I and II.” Degree-seeking students enroll in these courses under the guidance of their academic advisor. Non-degree students wishing to enroll in a Special *Maharishi Vedic Science* Studies course must submit a completed “Special *Maharishi Vedic Science* Studies Program Application/Registration” form and a nonrefundable $50 application and registration fee to the Registrar’s Office. Upon receiving verification of satisfactory completion of course work the University will enter credit on the student’s permanent record.

For further details about this program, please refer to “Special *Maharishi Vedic Science* Studies Program” under the “Department of Maharishi Vedic Science.”

**ADDITIONAL INFORMATION FOR ALL APPLICANTS**

**Policies for 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, 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.
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 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 is 4–5 hours a week.

### CURRENT FINANCIAL AID PROGRAMS

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<td>• Trustees’ Scholarship</td>
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<th>Other Forms of Aid</th>
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<td>• Veterans’ Benefits</td>
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<td>• Iowa National Guard Educational Benefits</td>
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• 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, 2018–19

Program types

Program charges are per semester (Fall and Spring) except for the following programs:
  • Masters Computer Science Professionals: http://www.mum.edu/tuition
  • MBA Accounting Professionals: http://www.mum.edu/tuition
  • Regenerative Organic Agriculture Certificate: http://www.mum.edu/tuition
  • Non-Degree Guest Students: one course at a time
  • 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) $ 5,000
  • Half Time (6 to 8.75 credits) $ 3,000
  • Less than 6 credits per semester is $ 500 per credit.

Master’s Degree Tuition Per Semester
  • 12 or more credits $14,000
  • 6 to 11.75 credits $ 4,800
Except $2,700 for 6-11.75 credits for these two programs:
  • Maharishi Vedic Science
  • Maharishi Ayur Veda and Integrative Medicine

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 $8,230
- 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**

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<th>Full Meals</th>
<th>Single Room</th>
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<tr>
<td>Twelve or more weeks</td>
<td>$2,000</td>
<td>$1,700</td>
<td>$900 additional</td>
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<tr>
<td>Six to eleven weeks</td>
<td>$1,000</td>
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<td>$450 additional</td>
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Less than six weeks 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 bookstore.

Undergraduate students under 21 years of age are required to live 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) — Enrollment may be only one degree program level per 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 on the published academic calendar. January Intersession is attached to spring semester. Summer term is self-sufficient, separate.

Summer Term 2018
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 and is covered by scholarship (and grants if available) for DAY programs (Evening/Weekend and Distance Education students pay 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 for undergraduates or four credits for students in graduate programs.

January Session 2019
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 is charged in the same way all credits are charged for spring semester enrollment as a whole.

Note: Center Invincibility Course students pay the additional course fee and full accommodation rate no matter when the course takes place.

Other charges

- **Student Fees**: A Student Activities fee of $60, a Student Athletic Facilities fee of $40, a technology fee of $115, and a Health Clinic fee of $50 are charged per semester. 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.

- **International Students Health Insurance**: International students are charged an estimated $1,092 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 $546) 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 Program Tuition**: Undergraduate students and graduate students starting day programs in Fairfield will receive a scholarship from the David Lynch Foundation covering the tuition of the University’s Transcendental Meditation course. Professionals graduate students will be able to add the $240 Transcendental Meditation course tuition to their eventual program loan. USA 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 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 15 for spring semester. See 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 in day programs 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 approved transcript. University tuition (see first page) 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 application approval, at the rate of $500 per credit, with housing and meals for $210 per week (financial aid, including scholarship will not be available). A maximum of two courses (8 credits) can be transferred to a degree program. A student who withdraws after the second day of the course will be charged a minimum 50% of the course fee, 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
Current students deployed during enrollment (or spouse of deployed service member with children) may have a refund of tuition and fees for the entire semester if they choose to eliminate all course credit and all enrollment for that semester. Or may elect to retain only earned credits paying with the tuition reduced to cover only those credits. Or optional to also include credits where the professor agrees to allow completion of the course at a later date.

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 are 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, ¾ time, ½ time, ¼ 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 in for thirty 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 ten 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 ten 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>Amount</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 FSEOG 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>Amount</th>
<th>Description</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)</td>
<td>Pell, $370 FSEOG Grant, $0 loans</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: Master’s Distance Education 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.

Nondiscrimination

Maharishi University of Management and its educational programs, and benefits are available to all people without distinction as to sex, age, race, religion, color, national or ethnic origin, handicap, veteran’s status, or sexual orientation. Institutions of higher education are required by law (Title VI and Title VII of the Civil Rights Act of 1963, Title IX of the Education Amendments of 1972, the Americans with Disabilities Act of
1973, and the Americans with Disabilities Act of 1990) to provide this broad access to their educational programs and to serve society in a way that treats, with equal dignity, the diversity of individuals and groups which comprise our society. Inquiries concerning Title IX, Section 504, and the Americans with Disabilities Act should be directed to the MUM Title IX Officer, Maharishi University of Management, Fairfield, Iowa, 52557, (641) 209-1879, ext. 117.

**Important notice**

In compliance with Iowa Code Annotated Title VII 3 261B, please see www.mum.edu for course titles, descriptions, academic policies, credit earned, and degrees, as well as accreditation information, in combination with the charges and refund policies herein. Maharishi University of Management reserves the right to change, without prior notice, University charges and policies.

Information in this document is in accord with federal regulations as of June 1, 2018.
All research by anyone affiliated with Maharishi University of Management that involves human subjects must be approved by Maharishi University of Management’s Institutional Review Board. Contact chairman Fred Travis to initiate the review process by emailing ftravis@mum.edu.

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### ACADEMIC CALENDAR 2018-2019

#### 2018 SUMMER TERM

<table>
<thead>
<tr>
<th>Activity</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select Classes</td>
<td>Thursday, May 31</td>
</tr>
<tr>
<td>Registration</td>
<td>Begins Monday, June 11, Ends Friday, June 15</td>
</tr>
<tr>
<td>July (Block 7) for continuing students</td>
<td>Begins Monday, June 25, Ends Thursday, Aug, 16</td>
</tr>
</tbody>
</table>

#### FALL 2018 SEMESTER

**Arrival and Registration**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arrival Day for New Int’l Students</td>
<td>Sunday, August 12, and Monday, August 13</td>
</tr>
<tr>
<td>Arrival Day for New and Readmitted U.S. Students</td>
<td>Monday, August 13, and Tuesday, August 14</td>
</tr>
<tr>
<td>Orientation for New and Readmitted Students</td>
<td>Thursday, August 16–Sunday, August 19</td>
</tr>
<tr>
<td>Arrival Day for Continuing Students</td>
<td>Friday, August 17, or Saturday, August 18</td>
</tr>
</tbody>
</table>

**FALL REGISTRATION**

- All New and Readmitted Students: Wednesday, August 15
- All Continuing Students: Friday, August 17, and Saturday, August 18

**INTRODUCTORY COURSES**

- New Undergraduates: Monday, August 20 to Thursday, September 27
- New Graduate Students: Monday, August 20 to date that varies by program

#### FALL COURSES

<table>
<thead>
<tr>
<th>Course Details</th>
<th>Begins</th>
<th>Ends</th>
</tr>
</thead>
<tbody>
<tr>
<td>August (Block 8)</td>
<td>Monday, Aug. 2</td>
<td>Friday, Aug. 31*</td>
</tr>
<tr>
<td>September (Block 9)</td>
<td>Monday, Sept. 3</td>
<td>Thursday, Sept. 27</td>
</tr>
<tr>
<td>October (Block 10)</td>
<td>Monday, Oct. 1</td>
<td>Thursday, Oct. 25</td>
</tr>
<tr>
<td>November (Block 11)</td>
<td>Monday, Oct. 29</td>
<td>Tuesday, Nov. 20</td>
</tr>
<tr>
<td>Last day to apply for fall graduation</td>
<td>Thursday, Nov. 1</td>
<td></td>
</tr>
<tr>
<td>Thanksgiving Holiday</td>
<td>Wednesday, Nov. 21</td>
<td>Sunday, Nov. 25</td>
</tr>
<tr>
<td>December (Block12)</td>
<td>Monday, Nov. 26</td>
<td>Thursday, Dec. 20</td>
</tr>
<tr>
<td>Fall 2018 Graduation Date (No ceremony)</td>
<td>Thursday, Dec. 20</td>
<td></td>
</tr>
<tr>
<td>Winter Holiday</td>
<td>Friday, Dec. 21</td>
<td>Friday, Jan. 11</td>
</tr>
</tbody>
</table>
WINTER SESSION

JANUARY (Block 1) Monday, Jan. 14 – Thursday, Feb. 7
Registration is Friday, Jan. 11, or Saturday, Jan. 12

SPRING 2019 SEMESTER

Arrival and Registration

Arrival Day for New Int’l Students Sunday & Monday, Feb. 3–4
Arrival Day for New U.S. Students Monday & Tuesday, Feb. 4–5
New Student Orientation Thursday–Sunday, Feb. 7–10
Arrival Day for Continuing Students Friday, Feb. 8

SPRING REGISTRATION

• All New and Readmitted Students Wednesday, February 6
• All Continuing Students Friday & Saturday, Feb. 8–9

INTRODUCTORY COURSES

• New Undergraduates Monday, February 11, to Thursday, March 21
• New Graduate Students Monday, February 11, 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>
</tr>
</thead>
<tbody>
<tr>
<td>February (Block 2)</td>
<td>Monday, Feb. 11</td>
<td>Friday, Feb. 22*</td>
</tr>
<tr>
<td>March (Block 3)</td>
<td>Monday, Feb. 25</td>
<td>Thursday, March 21</td>
</tr>
<tr>
<td>Spring Break</td>
<td>Friday, March 22</td>
<td>Sunday, March 31</td>
</tr>
<tr>
<td>Last day to apply for spring graduation</td>
<td>Monday, April 15</td>
<td></td>
</tr>
<tr>
<td>April (Block 4)</td>
<td>Monday, April 1</td>
<td>Thursday, April 25</td>
</tr>
<tr>
<td>May (Block 5)</td>
<td>Monday, April 29</td>
<td>Thursday, May 23</td>
</tr>
<tr>
<td>June (Block 6)</td>
<td>Monday, May 27</td>
<td>Thursday, June 20</td>
</tr>
<tr>
<td>Commencement</td>
<td>Saturday, June 22, 1:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>Residence Halls Close for Summer</td>
<td>Saturday, June 22, 5:00 p.m. **</td>
<td></td>
</tr>
</tbody>
</table>

SUMMER TERM

2019 Summer term July (block 7) Monday, June 24 Thursday, Aug. 15

*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 24, 2:00 p.m.