Graduate Studies in Sustainability

Emily Stutzman Jones
Academic Director,
Institute for Sustainable Practice
Graduate Studies in Sustainability

• Master of Science in Sustainability
• Dual Degree MBA/M.S. in Sustainability
• Certificate of Graduate Studies in Sustainability
• Sustainability Concentration Option for MBA Program

Steve Joiner, Dean, College of Leadership and Public Service
Emily Stutzman Jones, Academic Director
G. Dodd Galbreath, Founding Director

The mission of the Institute for Sustainable Practice is to develop and advance the theory, practices and professional field of sustainability through education, research, training and service to the community and the world. Sustainability refers to a holistic approach in the stewardship of people, the planet, prosperity and providence.

Lipscomb University equips professionals from virtually any discipline with a theoretical basis and practical application in sustainability, including students with non-science backgrounds. Foundational course work establishes a foundation in sustainability theory and principles. These include: fundamentals of earth science, biomimicry, business management, entrepreneurship, social justice, corporate and social responsibility, leadership, communication, conflict management, and social dynamics. Advanced courses allow students to graduate with concentrations in sustainable food systems, renewable energy, green buildings and sites, sustainable business performance, sustainability metrics, creation care, food systems, and individually designed sustainability concentrations approved by the program. Students are also able to tailor course work to individual passions and interests through course projects, elective study, faculty-mentored research and a capstone project.

The Institute for Sustainable Practice offers four graduate study options: a Master of Science in Sustainability; a dual degree Master of Business Administration and Master of Science in sustainability resulting in two diplomas with fewer credit hours due to overlapping course work; a Certificate of Graduate Studies in Sustainability; and an MBA with a concentration in sustainability. All study options include the same foundational course work. All courses offer assignments that students can tailor to personal or career interests.

Successful practitioners in sustainability and seasoned academics provide course instruction to combine the best of market experience and subject matter delivery. Course content, field tours, sustainability travel, guest expert lectures, annual seminars and conferences provide complete insight into subject discovery, career networks and the best chances for professional success.

Lipscomb University was named one of the Princeton Review’s 2013 322 Green Colleges due to “exemplary commitment to sustainability.” For five consecutive years, the university founded and sponsored Tennessee’s first Sustainable Business Summit bringing to Nashville leading sustainability pioneers such as L. Hunter Lovins, author of Natural Capitalism; Janine Benyus, author of Biomimicry; and Gary Hirshberg, founder and CEO of Stonyfield Farms organic yogurt company. The Biomimicry Institute also named the university as its first faith-based affiliate member.

Nashville and the state of Tennessee provide a superb classroom for sustainability in practice. Highlights include: three Lipscomb University ground-sourced heating and cooling system buildings and Tennessee’s first LEED Gold Certified academic building. In the surrounding region and state, there has been rapid growth in solar energy installations; a new $1.6 billion Nissan electric car and battery plant; a $1 billion LEED Platinum (first in the world) Volkswagen automobile plant; and the internationally significant aquatic biodiversity of the Clinch, Powell, Duck and Conasauga Rivers and the Great Smoky Mountains, among other regional wonders of creation.
Master of Science in Sustainability
The Master of Science degree consists of 30 hours of graduate course work. The degree is ideal for students from any discipline who seek a focused career in sustainability managing people and/or projects, including: corporate management; consulting; design; construction management; business performance; nonprofit development; project management; and sustainability certification.

Fifteen hours of course work compose the core foundation. Students also complete 15 additional hours of advanced courses. Some of these advanced courses allow students to further refine specializations in sustainable food systems, renewable energy, green buildings and sites, sustainable business performance, sustainability metrics, creation care, and custom designed concentrations approved by the academic director. Students must also complete a capstone experience to demonstrate a comprehensive understanding and application prior to graduation. Foreign or domestic travel to the best sustainability locations round out the program experience. Experienced academics and successful practitioners provide course content.

Many students complete the program in 12–15 months, but credits are eligible for up to five years. The Master of Science in sustainability is fully accredited by the Commission on Colleges of the Southern Association of Colleges.

Dual Degree Program: MBA and M.S. in Sustainability
The dual degree program combines cutting edge business training with state of the art training in sustainability resulting in two diplomas. Many professionals choose this option to enhance their flexibility to meet ever shifting credential expectations. Students enrolled in the dual-degree program will complete a select grouping of courses from each program (24 hours in business and 24 hours in sustainability, depending on which travel course is selected). Successful completion of 48 hours of course work will earn students both an MBA and an M.S. in sustainable practice.

Students enrolled in either MBA program (evening or weekend) can pursue the dual degree option. Dual degree students must participate in a global travel course, but have the option of either an MBA travel course or the sustainability travel course, as long as it is a global experience (outside of the continental U.S.).

Certificate of Graduate Studies in Sustainability
The certificate consists of 15 hours of graduate course work and comprises one half of a master’s degree. The certificate is ideal for college graduates or masters degreed professionals of any discipline who seek additional professional credentials and fundamental skills in sustainability, without having to pursue a full graduate degree. Course work includes both theoretical and applied experiences for seasoned or new professionals.

Concentration in Sustainability
(for the Master of Business Administration, see “College of Business”)
The Green MBA is a partnership between the College of Business and the Institute for Sustainable Practice and provides required course work for both programs. The concentration in sustainability is ideal for MBA students who desire to manage people and money in a profitable, ecological and socially responsible business context. Careers include entrepreneurship, corporate sustainability leadership, business management, consulting, development, advertising, marketing and sales. The Green MBA consists of traditional graduate business core courses and nine hours of course work from ISP to fulfill the concentration: SU 6003, SU 6023 and SU 6153. Note: Only two additional courses are required to convert a concentration to the aforementioned Certificate, providing additional documentation of sustainability credentials.

MBA students can be admitted into the graduate sustainability program and complete all sustainability courses before taking any leveling or graduate MBA courses. Admission to the graduate sustainability program does not however guarantee admission to the MBA program.

Students enrolled in either MBA program (evening or weekend) can pursue the dual degree option. Dual degree students will participate in a global travel course, but have the option of either an MBA travel course or the sustainability travel course, as long as it is a global (outside of the continental U.S.) travel course.

The dual degree option MUST be declared before the student graduates with either degree. Once a student has graduated with either degree, the dual degree option is no longer available.
Services and Benefits Common to all ISP Programs

• All books, materials, and meals served during class are included in tuition unless otherwise noted during the admissions process (this does not include additional fees required for travel courses).
• All assignments, homework submissions, exams and grading are completed electronically.
• Professional, applied and real consulting experiences are available in every sustainability course.
• All assignments, homework submissions, exams and grading are completed electronically.
• Graduate courses for graduate credit are open to undergraduates in their last semester of study or may be taken as undergraduate credit courses altered for undergraduate requirements.
• All certificate credit hours can be applied to current and future sustainability graduate degrees offered through ISP, as listed in the aforementioned program summary.
• The certificate can be completed in six to eight months and the M.S. in 12 to 15 months, but all earned course credits can be applied toward a certificate or degree for up to five years.

• Students have the opportunity to meet national and international sustainability leaders in class lectures, at local events, at conferences, and on travel courses.
• Leadership in Energy and Environmental Design (LEED) certification and other professional credentials can be secured for partial or full graduate credit, depending on the credit hours required.

Admission Policies and Procedures

A four-year undergraduate degree is required. In addition to meeting all Lipscomb University requirements for admission, each applicant to the graduate program in sustainability must submit the following:

1. Application Form. Each applicant must complete an application form. The application form is available at lipscomb.edu/admissions/graduate then click on “Apply by Program” to complete the online application.
2. **Application Fee.** Each application should be accompanied by a $50 nonrefundable application fee ($75 for international students).

3. **Standardized exam score.** Each applicant must submit the scores of a standardized exam as a part of their application materials. GRE scores are required for students pursuing the M.S. in Sustainability and the GMAT is required for students pursuing the dual degree program. With academic director consent, M.S. applicants may arrange to complete the GRE and send scores within the first six months of enrolling in the graduate program as a non-degree student. For non-degree students, the candidate interview, transcripts and resume serve as the primary application materials. Students who have already earned a master’s level degree may apply to the program without submitting any standardized test scores. (For more information, visit www.ets.org/gre or www.gmat.org.) Scores for the Law School Admission Test (LSAT) can be accepted as substitutes for the GMAT or GRE requirement.

4. **References.** Two letters of reference are required: one academic and one character reference.

5. **Official Transcript(s).** Each applicant must submit an official transcript, showing degree conferral when appropriate, from all schools attended.

6. **Health Form.** Upon acceptance, each applicant must submit a completed health form signed by a health care provider. (To print a copy of the health form, visit www.lipscomb.edu/healthcenter/forms.)

7. **FERPA.** The Family Educational Rights and Privacy Act affords students certain rights of access to educational records; even if you are independent of your parents, you must submit this form prior to enrollment.

8. **Candidate Interview.** Each applicant must visit the campus or meet by video conference call to participate in an interview to identify the applicant’s unique goals and objectives and to determine the applicant’s suitability for successful in the program and leadership potential in the field of sustainability.

9. **TOEFL.** The Test of English as a Foreign Language is required for international students. (See section titled International Students for more information.)

All application items should be submitted to the Institute for Sustainable Practice no later than 30 days before the beginning of the month in which the student plans to enroll. It is preferred that forms be scanned and emailed to sustainability@lipscomb.edu. If necessary, items should be mailed to: The Institute for Sustainable Practice, Lipscomb University, One University Park Drive, Nashville TN 37204-3951.

**Student Classifications**

Students are admitted to graduate courses in one of five categories:

1. **Graduate Student:** one who has satisfied all admissions requirements. (Average of 3.0 for last 60 hours, GRE/GMAT acceptable scores.) A student with an incomplete admission file will be accepted to the program at the discretion of the academic director but will be placed on an academic hold which will prevent registration for the following semester. Once the proper admissions documents have been received, the hold will be removed and the student will be

2. **Conditionally Admitted Student:** one who has been admitted conditionally, at the discretion of the academic director, without satisfying all admission requirements. Students admitted with the following criteria may be required to complete a minimum of nine hours of graduate work with a grade of “B” or above before the conditional admission is removed.

   a. From an unaccredited school or with a GPA or GRE/GMAT score below admission requirements.

   b. A transfer student with a graduate GPA between 2.50 and 2.99. The transfer student must be in good standing at the previous institution attended. The transfer student may be accepted upon approval of Registrar and program administrators.

   c. A student who has not completed a bachelor’s degree program but who is within six hours of graduation. The student must be in good standing at the previous institution attended.
3. **Non-Degree Student:** one who has been admitted to graduate studies and has met all admission requirements except GPA or GRE/GMAT. The student may take up to nine semester hours for graduate credit. Those hours may be applied toward a master’s degree if the student makes a grade of “B” or better in the courses taken for credit and if all admission requirements (GPA and GRE or GMAT) are met and the student is formally admitted to a graduate program as a degree-seeking student.

4. **Visiting Student:** one who is currently enrolled as a student in good standing at the post-bachelor’s level at another graduate school, wishes to take courses at Lipscomb and desires to have transcript evidence of course work done at Lipscomb provided for the school of primary enrollment.

5. **Probationary Student:** one who has been readmitted to a graduate program following academic suspension from the program.

Admission to a program does not imply admission to candidacy for the master’s degree. Only those students who meet the requirements for “Graduate Student” described above are eligible for candidacy.

### Academic Policies

#### Course Load

A student enrolled for nine hours each semester is considered a full-time student. A student enrolled for six hours is considered a half-time student. A student enrolled for less than six hours is considered a part-time student. No student will be permitted to enroll for more than 12 hours per semester without special approval from the academic director of the graduate program. See the section on "Projected Course Plan" for course schedules.

#### Academic Standing

1. **Good Academic Standing:** To remain in good academic standing, the sustainability program graduate student must maintain a cumulative 3.00 GPA and a 3.00 GPA on the most recent 12 semester hours of work.

2. **Probation:** Should the student’s cumulative graduate GPA fall below 3.00, he/she will be placed on academic probation. A student on academic probation will not be allowed to enroll for more than six hours during any term the probation applies.

3. **Suspension:** If the requisite GPA is not attained, the student will be suspended from graduate studies at Lipscomb for the following semester, after which the student may apply for readmission. The student may be required to appear before the graduate committee.

A graduate course in which a student has earned a “C” or “F” may be repeated. In such cases, only the higher grade will be used to compute the student’s GPA. Failing grades will provide no credit toward the degree but will be included in figuring scholarship level, unless replaced with a higher grade by repeating the course(s). A 3.00 GPA must be maintained to be eligible for financial assistance.

#### Transfer of Courses

Although all graduate credit hours may be transferred from another accredited institution, a maximum of nine hours will be counted toward the M.S. in Sustainability. The director or appropriate faculty member of the graduate program will evaluate the course(s) being proposed for transfer and make a determination of suitability. No course with a grade below a “B” will be considered for transfer.

#### Documentation

Students are required to provide satisfactory documentation of personal identification for off-site learning experiences required in many programs of graduate study at Lipscomb University. Failure to provide proper credentials will result in failure to complete the desired course of study. For complete policy, see section entitled Required Documentation for Off-Site (and Virtual Classroom) Learning Experiences in the opening section of this catalog.
4. **Appeals**: Appeals to suspension decisions should be made in writing to the vice provost for academic development and graduate studies. Appeals must be received no later than 4:30 p.m. on the Monday of the week before classes begin for the term during which the student wishes to be readmitted.

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**Degree Completion Requirements**

**Residency**
No period of formal residency is required.

**Candidacy**
During the course of pursuing the Master of Science in sustainability, the dual degree M.S./MBA, or the MBA concentration in sustainability, the student must be admitted to “candidacy.” For admission to candidacy the student must satisfy the following:

1. Complete all required undergraduate deficiencies if admitted on condition.
2. Complete at least twelve hours of graduate work.
3. Maintain a 3.00 GPA on all courses taken toward the requirements for the degree with no incomplete grades.
4. File a declaration of candidacy form with the graduate program office.
5. File a degree plan in the graduate program office which meets all requirements and is approved by the administrator of the graduate program. The degree plan must be filed during the second semester of graduate work in the program.

After admission to candidacy and approval of the degree plan, any changes in the degree plan must be approved by the administrator of the graduate program. The application for candidacy must be filed before the beginning of the student’s last semester in the program. No student will be allowed to graduate in the same semester in which the application for candidacy is filed.

**Statute of Limitations**
All requirements for the pursuing the Certificate of Graduate Studies in Sustainability or the M.S. in sustainability, must be completed within a five-year period from the time of initial matriculation. Exceptions may be made at the discretion of the ISP academic director.

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**Minimum Credits**
The MBA concentration in sustainability requires nine semester hours of introductory sustainability course work; the dual degree MBA/M.S. in sustainability requires 24 hours in each program; the Certificate of Graduate Study in sustainability requires 15 semester hours of introductory and capstone sustainability course work; and the M.S. in sustainability requires 30 hours of introductory and specialized sustainability course work; all course work is exclusive of hours accumulated to satisfy academic deficiencies.

**Minimum GPA**
The minimum cumulative grade-point average is 3.00. No grade below a “C” is acceptable. Such grades will not apply toward degree completion.

**Graduation**
Students must register for GN 999X the semester in which all course work will be completed for graduation. Students who do not file their intent to graduate form in the registrar’s office by the end of the first week of their last semester may be delayed in graduating.

Graduate students receiving degrees are hooded during the May and December commencement exercises.

**Appeals**
Any exceptions to the above stated requirements would require approval via the appeal process established by the graduate academic leadership team.

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**Financial Information**

**Tuition and Fees for 2015-16**

**Basic charges** per semester:
- Tuition per semester hour of graduate credit ..............$1,274
- Tuition to audit without credit ........50% of regular tuition

**Special Fees**
- Application fee ............ $50 ($75 for international students)
- Application for Graduation ........................................ $195
- Returned check fee ................................................. $30
- TouchNet (monthly payment) ...................................... $60 enrolment fee per semester
- Withdrawal fee .......................................................... $195

*Effective May 1, 2015
Projected Degree Plan
Regardless of the graduate program, students should complete a degree plan or declaration of candidacy that not only includes the projected number of hours needed to enter the graduate program (leveling requirements or pre-requisites) as well as the graduate courses required to successfully earn a diploma. In this manner, the student may better plan and coordinate graduate school responsibilities with personal obligations. Leveling or other prerequisite requirements could add from one month or more to a projected program of study, depending on the degree. Please contact each individual graduate program for their pre-graduate program requirements. Please also plan to commit fully to the graduate school experience, giving priority to courses, on-campus speakers, field trips, conferences, travel, team projects, individual maturation and professional growth, and interpersonal interactions.

Certificate of Graduate Studies in Sustainability
(15 hours required for Certificate; nine hours for the Sustainability concentration for MBA)

Master of Science in Sustainability (30 hours)
General Schedule for Independent Study Courses
Traditional Semester: Independent study courses follow a semester-long format. Independent study means the student directs the course of study, without the structured direction of a professor as follows:

- Complete research on the type of course topic desired for study. Usually these course subjects focus on a concentration not offered in the program.
- Schedule a consultation with a course facilitator who completes a course agreement form (available on ISP website) or course contract. The student develops an outline of learning objectives, course expectations, timelines and deliverables and documents it on the Form.
- Check in with the course facilitator at mid-semester to ensure the independent study is progressing as agreed and that the learning objectives are being achieved.
- Complete the agreed course of study and submit deliverables to the course facilitator for grading, prior to the date for final course grade submission.

Master of Science Concentrations
The Institute for Sustainable Practice offers several academic concentrations. Students may select from the options below, or work with the academic director to design a concentration.

Sustainable Food Practice: Secure a fundamental understanding of conventional and alternative food systems, including in food production, distribution, and policy. Courses required: SU 6143 Sustainable Food Practice; SU 609V Travel with emphasis on Sustainable Food Practices; SU 6043 Capstone project in Sustainable Food Practices.

Renewable Energy Options and Design Applications: Secure a fundamental understanding of renewable energy systems, options, applications, fundamental design features, and practical application. Courses Required: SU 6000 Renewable Energy Options and Design Applications; SU 609V Travel with emphasis on Renewable Energy Options and Design Applications; SU 6043 Capstone project in Renewable Energy Options.

Introduction to Green Building Design and Operation: Develop a fundamental understanding in the design, construction, operation, management, and best practices for sustainable buildings and sites. Courses Required: SU 6123- Intro to Green Building; SU 609V Travel with emphasis on Green Building; SU 6043 Capstone project in Green Building. Pursuing LEED or other green building credentials is also recommended.

Sustainable Business Performance: Courses Required: SU 609V Travel with Emphasis on Business; SU 6043 Capstone project in Business. Focuses on business analytics and management skills that enhance business gains in profit, social and environmental responsibility.

Creation Care and Spiritual Formation: Courses Required: SU 6103- Creation Care; SU 609V travel with emphasis on Creation Care; SU 6043 Capstone project in Creation Care. Explores the historical and contemporary theological understanding of creation care and stewardship, personal Christian faith and its integration with the profession of sustainability and awareness of best practices for faith institutions.

Concentration Approved by Program: Courses Required: SU 6033; SU 609V travel with emphasis on approved concentration; SU 6043 Capstone project in approved concentration. Allows students to design an unique concentration, approved by the program director, not currently offered in the program. Examples
of this include: sustainable pharmacy, recreational design, hospitality, tourism, environmental literacy, industrial design, home renovation, community health, carbon modeling and more.

**Foundation Courses 12 hours**  
(Certificate students complete the 12 hours below plus one 3 hour advanced or elective course)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ICM 5003</td>
<td>Survey of Conflict Management</td>
<td>(3)</td>
</tr>
<tr>
<td>SU 6003</td>
<td>Sustainable Earth Systems</td>
<td>(3)</td>
</tr>
<tr>
<td>SU 6153</td>
<td>Zero Management</td>
<td>(3)</td>
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<tr>
<td>SU 6023</td>
<td>Sustainable Enterprise I</td>
<td>(3)</td>
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**Advanced Required Courses**  
(M.S. and Dual Degree) (12)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SU 6043</td>
<td>Capstone Project in Sustainability</td>
<td>(3)</td>
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<tr>
<td>SU 6063</td>
<td>Sustainable Enterprise II</td>
<td>(3)</td>
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<tr>
<td>SU 6073</td>
<td>Applied Earth Systems</td>
<td>(3)</td>
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**Elective Courses: (6 credit hours – Choose Two)**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SU 6033</td>
<td>Special Topics in Sustainability</td>
<td>(3)</td>
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<tr>
<td>SU 6083</td>
<td>Professional Experience and Study in</td>
<td>(3)</td>
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<tr>
<td></td>
<td>Sustainability</td>
<td></td>
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<tr>
<td>SU 6103</td>
<td>Creation Care and Spiritual Formation</td>
<td>(3)</td>
</tr>
<tr>
<td>SU 6123</td>
<td>Introduction to Green Building Design,</td>
<td>(3)</td>
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<tr>
<td></td>
<td>Construction and Operation</td>
<td></td>
</tr>
<tr>
<td>SU 6133</td>
<td>Renewable Energy Options and Design</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td>Applications</td>
<td></td>
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<tr>
<td>SU 6143</td>
<td>Sustainable Food Practice</td>
<td>(3)</td>
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**Dual Degree: MBA and M.S. in Sustainability**

Note: Graduate students participating in the dual degree program must adhere to the admissions and academic policies of each graduate program that are consistent with policies for dual degree programs. For additional information see the Dual-Degree Programs section of this catalog.

See M.S./Certificate course descriptions for SU course prerequisite requirements.

**Graduate Courses from the College of Business:**

**MBA Format (24 hours):**

**Strategic module:**

- BU 6001 The Managerial Environment (1)
- BU 6062 Strategic Marketing (2)
- BU 6083 Strategic Management (3)

**Analytical Tools for Managers module:**

- BU 6033 Accounting for Executives (3)
- BU 6053 Financial Management and Strategy (3)
- BU 6073 Service Operations and Managerial Economics (3)

**Managing Human Capital module:**

- BU 6013 Business Ethics (3)
- BU 6523 Managing Human Resources (3)
- BU 6533 Leadership & Organizational Behavior (3)

**PMBA Format (24 hours):**

**Strategic module:**

- PMBA 6062 Strategic Marketing (2)
- PMBA 6103 Strategic Management (3)
- PMBA 6121 Consulting Project (1)

**Analytical Tools for Managers module:**

- PMBA 6023 Accounting for Executives (3)
- PMBA 6043 Financial Management & Strategy (3)
- PMBA 6073 Service Operations & Managerial Economics (3)

**Managing Human Capital module:**

- PMBA 6053 Corporate Governance, Ethics and Corporate Responsibility (3)
- PMBA 6083 Managing Human Resources (3)
- PMBA 6533 Leadership & Organizational Behavior (3)

**Graduate Courses from the Institute for Sustainable Practice:**

**Foundational Module (12 hours):**

- SU 6003 Sustainable Earth Systems (3)
- SU 6153 Zero Management (3)
- SU 6023 Sustainable Enterprise I (3)
- ICM 5003 Survey of Conflict Management (3)
Advanced Module (9 hours):

SU 6063  Sustainable Enterprise II (3)
SU 6073  Applied Earth Systems (3)
AND one of the following electives

6103  Creation Care and Spiritual Formation (3)
6123  Introduction to Green Building, Design and Operation (3)
6133  Renewable Energy Options and Design Applications (3)
6143  Sustainable Food Practices (3)

Global Travel Course: (Choose One)

SU 609V  Sustainability Travel [to non-U.S. destination] (3)
  
OR

BU 6633  Global Business Travel (with sustainability component) (3)
  
OR

PMBA 6633  MBA Global Business (3)

Course Descriptions

SU 6003  Sustainable Earth Systems (3)
Studies how the Earth’s systems are the model for sustainable and regenerative practice. Students will review basic earth sciences and analyze the structure and function of abiotic and selected biotic systems to later apply these lessons to human and natural challenges. No prerequisite; introductory course.

SU 6023  Sustainable Enterprise (3)
Explores business as the model for delivering prosperity and for achieving sustainability in timely, reliable, affordable, effective and creative manner. It reviews fundamentals of business models, tools and frameworks that are used to incorporate social and environmental dimensions in a competitive and profitable manner. Prerequisite: SU 6003 or consent of program director.

SU 6063  Sustainable Enterprise II (3)
Probes more deeply into the metrics of the “triple bottom line” – the simultaneous delivery of financial, social and environmental performance – and expands student’s knowledge of specific strategic models, tools and frameworks and in-depth case studies in leading green business sectors that successfully incorporate social and environmental dimensions in a competitive and profitable manner. Prerequisite: SU 6003.

SU 6073  Applied Earth Systems (3)
Addresses how to transfer the core principles, designs and strategies of abiotic and biotic systems into sustainable and regenerative solutions to human and natural challenges using tools such as biomimicry, continuums of care and systems thinking. Prerequisite: SU 6003.

SU 6033  Special Topics in Sustainability (3)
Responds to the ever-changing world of sustainability through course offerings that may not be frequently repeated. Content is developed for each offering, which may include independent study. Prerequisite: Permission of the instructor and nine credit hours.

SU 6043  Capstone Project in Sustainability (3)
Collaborative study to apply the concepts of the entire graduate program. Course is based on application processes and skills while working through either case studies or real time community needs. Course credit may also be dedicated to attaining sustainability certification (e.g., professional sustainability certifications with approval of the academic director) and by documenting an approved application of certification knowledge. Students may also opt for a capstone experience that is facilitated by an instructor to resolve a specific client challenge using advanced tools derived from Enterprise I and II. Prerequisites: nine credit hours for certificate students; 21 credit hours for M.S. students.
SU 6083  Professional Experience and Study in Sustainability (3)
Shadow, serve and study with successful sustainability professionals in the specific specialization, field or level of advancement appropriate to their electives, goals and prior experience for the term of the course. Prerequisites: 24 hours in graduate sustainability.

SU 609V  Sustainability Travel to [Destination] (3)
Experience live, on-site domestic and international destinations for variable credit. Can include major conferences and specialized travel. Students conduct research, study and detailed examination before, during and after the travel destination and assess its lessons to a broader understanding of the larger sustainability movement. No prerequisites; offered for variable course credit.

SU 6103  Creation Care and Spiritual Formation (3)
Addresses what some describe as the fourth leg of sustainability: Providence or Spirituality. Examine and discuss potential relationships between professional sustainability, faith-based creation care, and personal Christian spiritual formation and growth. The student will also assess best practices of sustainability for faith based institutions. Prerequisite: SU 6003.

SU 6113  Principles of Applied Sustainability (3)
All sustainability professionals must eat food, live and work in buildings/sites, use energy, and measure sustainability performance. These interactions most commonly define individual commitment, integrity and professionalism in regard to the daily practice of sustainable living. The course will survey the array of applied practices in each of these focal areas and introduce core principles that are prerequisite to more in depth specialization. Prerequisite: SU 6003.

SU 6123  Green Building Design, Construction & Operation (3)
An examination of green commercial, industrial and residential development, management, maintenance, life cycle costs, certification, practices, technology and sustainable waste management applications from site selection, planning, design and construction through operations and management. Prerequisite: SU 6003.

SU 6133  Renewable Energy Options and Design Applications (3)
As the preferred choice of sustainable design, renewable energy and its various alternative technologies, applications and design parameters are the focus of the course experience. Prerequisite: SU 6003.

SU 6143  Sustainable Food Practice (3)
A study of sustainable food practice including sustainable agriculture production, health, manufacturing, distribution, retail, urban and community gardens, food co-ops, farmers markets, international trade and the unique needs of developing countries. Prerequisite: SU 6113.

SU 6153  Zero Management (3)
Represents a growing trend in business and industry to eliminate the financial and legal risk associated with waste and inefficiency. The course will examine all aspects of “net zero,” “net positive,” “regenerative,” and “no-net-impact” management within an organization and its unique social and psychological framework. Prerequisite: SU 6003.
Sustainability Core Faculty

G. Dodd Galbreath, B.S. (Tennessee Technological University), M.S.P. (University of Tennessee), ISP Founding Director and Assistant Professor of Sustainability

Emily Stutzman Jones, B.A. (Harding University), M.S., Ph.D. (Auburn University) ISP Academic Director and Assistant Professor of Sustainability

Other adjunct faculty, staff, guest lecturers and program advisors associated with the graduate program in sustainability are posted on the Institute website at www.lipscomb.edu/sustainability