

Innovation Academy Senior Project (IDS4950) Course Syllabus

Catalog Description:

Using on-line lectures, discussions, and a multi-disciplinary team-based project approach, students synthesize and demonstrate life skills in creativity and innovation, entrepreneurship and entrepreneurial thinking, and leadership and ethics through design and development of a team project.

Course Overview:

The Innovation Academy (IA) provides students with a small-group experience focused on development of innovation, creativity, entrepreneurship, entrepreneurial thinking, ethics and leadership skills. Innovation Academy challenges students to address and solve “real world” problems and this course requires students to synthesize these skills and demonstrate them through a multi-disciplinary, team-based project.

Credit Hours:

2

Students should anticipate dedicating approximately 90 hours of effort over the course of the semester. Specifically, students can expect to spend 15 hours viewing weekly on-line lectures, 30 hours in weekly discussion sections including taking quizzes and presenting their work, and 45 hours working on their project and preparing their project report and presentations with their team outside of the regularly scheduled class time.

Pre-requisite:

Senior status enrolled in Innovation Academy Minor.

Student Learning Outcomes:

Students are expected to synthesize and demonstrate the knowledge and tools of the Innovation Academy Minor curriculum Years 1-3 as evidenced through the following Student Learning Outcomes (SLO's). The student will demonstrate at least three of the following SLO's, with at least one coming from each of 1) Creativity and Innovation, 2) Entrepreneurship and Entrepreneurial Thinking, and 3) Leadership and Ethics:

Creativity and Innovation

- Demonstrate knowledge of creative design processes through a project, taken through prototype stage
- Demonstrate creative and innovative ways to build measurable value in a project or organization

Entrepreneurship and Entrepreneurial Thinking

- Demonstrate application of entrepreneurship through startup of an enterprise focused on a project relevant to the student's major

- Demonstrate the real world application and utilization of entrepreneurial thinking skill sets and tools in a project

Ethics and Leadership

- Demonstrate knowledge of ethical theories, practical processes and challenges through creation of an ethics strategy and monitoring plan for a project or enterprise
- Demonstrate understanding of leadership theory and practice through application to a team-based project

Contribution of course to meeting the professional component:

Not applicable as course is not specific to a major.

Relationship of course to program outcomes:

Provides students with: an ability to function on multidisciplinary teams; an understanding of professional and ethical responsibility; an ability to communicate effectively; a broad education necessary to understand the impact of solutions in a global, economic, environmental, and societal context; and knowledge of contemporary issues.

Instructor:

XXX

Office location: XXX

Telephone: XXX

E-mail address: XXX

Web site: XXX

Office hours: XXX

Teaching Assistant: XXX

Meeting Time and Location:

XXX

Material and Supply Fees:

None

Textbooks and Software Required:

None

Course Outline:

The course will be firmly presented in a “real-world” format, including students forming multi-disciplinary teams and undertaking a project to demonstrate at least three of the Student Learning Outcomes as discussed below. The course will be conducted along the following outline:

- Team Formation: A key component of this course is the creation of multi-disciplinary teams, typically consisting of 4-6 students. Some pre-semester preparatory work may be required to allow students to meet and start to explore project ideas. Early in the

semester, students will self-select into the student teams in which they'll work during the course.

- Project Selection: Student teams will be led by the instructor through a process of creative ideation and vetting to identify a team project targeting “real-world” issues affecting the global community. Projects must demonstrate at least three of the course SLO’s, with at least one coming from each of 1) Creativity and Innovation, 2) Entrepreneurship and Entrepreneurial Thinking, and 3) Leadership and Ethics. Early in the semester, teams will present and defend how their proposed project specifically meets the SLO’s and an outline of their project development plan, and will require instructor approval to move forward with their project. Project deliverables will vary widely with the makeup of the team members and the socially or economically relevant objective of the project, but may include business or technology development plans, market or customer surveys, socially relevant project delivery pathways, etc. Anticipated project development plans must meet the course SLO requirements and the spirit of the Innovation Academy.
- Weekly On-line Lectures: Each week, students will be required to view one hour of on-line lecture reinforcing key topics of the major course themes of creativity, innovation, leadership, ethics, entrepreneurship, and entrepreneurial thinking. Weekly lecture topics will include:
 - Course Introduction*
 - Week 1 - Course objectives, Expected outcomes, Student Learning Outcomes, Syllabus
 - Teaming Topics*
 - Week 2 - Team formation, Team member dynamics, Conflict resolution, Maximizing team member input
 - Week 3 - Working across disciplines, Harnessing the power of an interdisciplinary team, Leading and following
 - Project Selection and Framing Topics*
 - Week 4 - Creative ideation in project selection
 - Week 5 - Identifying real-world issues affecting the global community
 - Week 6 - Project assessment for creativity, Entrepreneurial thinking, Leadership, and ethics
 - Mid-Term Presentation*
 - Week 7 - Effective team presentation skills, Messaging, Creative storytelling
 - Real World Project Constraint Topics*
 - Week 8 - Project constraints: Economic, Environmental
 - Week 9 - Project constraints: Social, Political
 - Week 10 – Project constraints: Ethical, Health and Safety
 - Week 11 - Project constraints: Manufacturability, Sustainability
 - Project Implementation Topics*
 - Week 12 - Project implementation challenges and opportunities across global and cultural boundaries
 - Week 13 - Engaging stakeholders (e.g. community service organizations,

industry, citizens, politicians) in project implementation
Week 14 - Measuring project impact on the global community (e.g. socially, culturally, financially)

Final Presentation

Week 15 - Effective report writing, Bringing it all together, Messaging

- Exams: Four exams will be administered to assess student learning of the topics of the Weekly On-Line Lectures (Teaming; Project Selection and Framing; Real World Project Constraints; Project Implementation). Specifically, exams lasting ~30 minutes will be administered as shown in the Weekly Discussion schedule, with each exam being worth 5% of the student's grade, for a total of 20% of the student's grade.
- Project Presentations: In the Week 8 Discussion, student teams will orally present progress toward their project development plan presented at the beginning of the semester. In the Week 15 Discussion, student teams will orally present their projects to the instructor and class. Student teams may also be called on to present their final project in a separate showcase format outside of the regular classroom to IA program stakeholders. Throughout the semester, teams may be called upon to present progress on their projects at the instructor's discretion.
- Project Final Report: At the end of the semester, student teams will submit their project findings and results to the instructor in a final report format to be provided by the instructor. Team projects must explicitly incorporate at least two realistic constraints of economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability. These constraints will be explicitly discussed in Weekly On-Line Lectures and must appear explicitly in Project Presentations and the Final Project Report.
- Weekly Discussion: Each week, students will meet with the instructor during a 2-hour Discussion session to discuss the topics of the Weekly On-Line Lecture, review progress in developing their team project, and take exams and/or present their work. During this time, students will be provided information on topics essential for development of their project and may also hear from practitioner guest lecturers. It is anticipated that student teams will meet regularly outside of class to develop their projects. Weekly Discussions will be as follows:
 - Week 1 - Discussion of course objectives, expected outcomes, and Syllabus
 - Week 2 - Discussion of Weekly On-Line Lecture topics and student projects
 - Week 3 - Discussion of Weekly On-Line Lecture topics and student projects
 - Week 4 - Discussion of Weekly On-Line Lecture topics and student projects;
Exam on Teaming Topics
 - Week 5 - *Student team presentations of Project Development Plan*
 - Week 6 - Discussion of Weekly On-Line Lecture topics and student projects
 - Week 7 - Discussion of Weekly On-Line Lecture topics and student projects;
Exam on Project Selection and Framing Topics
 - Week 8 - *Student Team Mid-Term Presentations of Projects*
 - Week 9 - Discussion of Weekly On-Line Lecture topics and student projects

- Week 10 - Discussion of Weekly On-Line Lecture topics and student projects
- Week 11 - Discussion of Weekly On-Line Lecture topics and student projects
- Week 12 - Discussion of Weekly On-Line Lecture topics and student projects;
Exam on Real World Project Constraint Topics
- Week 13 - Discussion of Weekly On-Line Lecture topics and student projects
- Week 14 - Discussion of Weekly On-Line Lecture topics and student projects;
Exam on Project Implementation Topics
- Week 15 - *Student Team Final Presentations of Projects*

Grading:

The course will be organized around on-line lectures, weekly discussions, and a team project. Semester grades will be determined as follows:

- Exams on Lecture Materials – 20% of semester grade
- Mid-term Project Presentation – 20% of semester grade
- Final Project Presentation – 30% of semester grade
- Project Final Report – 30% of semester grade

The grades for the Mid-term and Final Project Presentations and Project Final Report include a significant component that is based on the quality of the written work and oral presentation, as distinct from the quality of the project itself. The instructor will provide instructional material that specifies how to prepare the written report and the oral presentations.

Individual assignment and final course grades will be determined according to the following Grading Scale:

Letter Grade	Percent Grade	Letter Grade	Percent Grade
A	90-100	C	70-73.9
A-	87-89.9	C-	67-69.9
B+	84-86.9	D+	64-66.9
B	80-83.9	D	60-63.9
B-	77-79.9	D-	57-59.9
C+	74-76.9	E	0-56.9

A C- will not be a qualifying grade for critical tracking courses. In order to graduate, students must have an overall GPA and an upper-division GPA of 2.0 or better (C or better). Note: a C- average is equivalent to a GPA of 1.67, and therefore, it does not satisfy this graduation requirement. For more information on grades and grading policies, please visit: <https://catalog.ufl.edu/ugrad/current>.

Attendance and Make-up Policy:

Requirements for class attendance and make-up exams, assignments, and other work are consistent with university policies that can be found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

Course Evaluation:

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

Web Site:

A specific course website will be available to students through the UF E-Learning system. The website will contain the course schedule, instructor contact information, lecture videos, and any presentation and reading materials. Students are responsible for checking this often throughout the course as information may be updated frequently.

Academic Integrity:

As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.” You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: <http://www.dso.ufl.edu/SCCR/honorcodes/honorcode.php>

Accommodation for Students with Disabilities:

Students requesting classroom accommodation must first register with the Dean of Students Office. That office will provide the student with documentation that he/she must provide to the course instructor when requesting accommodation.

UF Counseling Services:

Resources are available on-campus for students having personal problems or lacking clear career and academic goals. The resources include:

- UF Counseling & Wellness Center, 3190 Radio Rd, 392-1575, psychological and psychiatric services.
- Career Resource Center, Reitz Union, 392-1601, career and job search services.

Software Use:

All faculty, staff and student of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.