To be completed the semester you take ENGR 490E for credit.

1. Complete the attached form and have your faculty advisor sign the form.
2. Turn the form into Engineering Student Services Office, 1300 Marston, and they will make duplicates.
3. You ALSO need to process a 490E add slip. Fill out the add slip and get the Classification Officer’s signature, 1300 Marston. Take the form to 10 Enrollment Services Building to be processed.

POLICY & PROCEDURES
The pedagogical intent of the Entrepreneurship Independent Study ENGR 490E is to provide an experiential learning activity for entrepreneurship studies minor students, supported by a faculty member from the student’s home college, the College of Engineering.

1. The independent study must include a significant experiential learning activity (e.g., starting a business, writing a business plan for a business concept, an internship or co-op that incorporates entrepreneurial processes, etc.), and include some of the entrepreneurial processes as described below:
   - Opportunity Recognition: the ability to perceive and to act upon opportunities in the environment that others don't see; developing a set of skills that can be used to differentiate between an idea and an opportunity.
   - Opportunity evaluation: the ability to use processes to evaluate an opportunity (e.g., feasibility analysis, market analysis) for the purpose of deciding whether or not to pursue the opportunity.
   - Innovation: creating new or novel ideas, offerings, processes, unique combinations.
   - Creative problem solving: the ability to examine standard situations or problems in new ways.
   - Mitigating risk: being a calculated risk-taker; managing risk.
   - Thinking and acting as a guerilla: taking unconventional approaches to examining problems and developing solutions.
   - Resource leveraging: the ability to assess and acquire necessary resources.
   - Managing ambiguity and uncertainty: being able and comfortable to address problems in loose and ambiguous contexts.
   - Implementation of change: the ability to create and manage change.
   - Building a plan for an innovative concept: the capacity to create and build something from practically nothing.
   - Entrepreneurial process: identifying an opportunity; developing a business concept; assessing the required resources; acquiring the necessary resources; implementing and managing; harvesting the venture.

2. The ENGR 490E is used towards completion of the entrepreneurial studies minor.

3. All tenure/tenure track faculty in the College are authorized as ENGR 490E faculty advisors. In addition, other faculty members may serve at the discretion of the undergraduate associate dean. It is up to the faculty member to agree to or to decline to serve as a faculty advisor.

4. Students must complete the Entrepreneurship Independent Study Agreement (attached) and return the signed copy to the Engineering Student Services Office, 1300 Marston. The office will make and distribute duplicate copies of the agreement. You may then register for the course with an add slip. It is expected that you register for the course the term the independent study is completed.

Employment and internships do not constitute, in and of themselves, a sufficient basis for 490E credit. The internship must be experiential in nature and incorporate entrepreneurial processes to earn credit towards the entrepreneurial studies minor.
ENGINEERING ENTREPRENEURSHIP INDEPENDENT STUDY AGREEMENT
Entrepreneurial Studies Minor
Iowa State University

Term: _____________ Year: _____________

Student Name: _____________________________________ ISU ID#: _____________

Course Number: _______________ # of Credits: _____________

(Independent study)

Project Title: ________________________________________________________________

Provide a short statement of two or three paragraphs (attached to the back of this agreement) describing: (1) the nature and scope of the project, emphasizing the experiential learning component; and (2) what the learning outcome or product of this activity will be (e.g., written report, company presentation, etc.).

In addition, please check below which entrepreneurial processes will be emphasized in this independent study (definitions of processes are listed on the first page).

- [ ] Opportunity recognition
- [ ] Opportunity evaluation
- [ ] Innovation
- [ ] Creative problem-solving
- [ ] Managing ambiguity & uncertainty
- [ ] Mitigating risk
- [ ] Thinking & acting as a guerrilla
- [ ] Implementation of change
- [ ] Resource leveraging
- [ ] Entrepreneurial process
- [ ] Building a plan for an innovative concept

Signatures required for approval:

____________________________________________________________________________
Student        Date

____________________________________________________________________________
Faculty Advisor       Date

____________________________________________________________________________
College of Engineering Classification Officer (1300 Marston)        Date

____________________________________________________________________________
Entrepreneurship Supervisory Committee Chair (2200 Gerdin)        Date

* cc:   Student____________________ *
        Engineering Student Services Office
        1300 Marston will make copies

Student file_________________
Faculty Advisor_________________
Associate Dean_________________