

# ENTC 485 and 491 GUIDELINES

ENTC 485 – Directed Studies is available to students for special projects or directed course material with a specific professor in the Department of Engineering Technology and Industrial Distribution.

ENTC 491 – Research is available to students who will be involved in independent research under the tutelage of a specific professor in the Department of Engineering Technology and Industrial Distribution.

\*Students must be completed with their fifth semester coursework\* (i.e., For IDIS, IDIS 343, 330, 340; for ESET, ESET 349, 350, 333; for MMET, MMET 376, MMET 380, MMET 281; for MXET, MXET 375, ESET 349, ESET 350) before being enrolled in ENTC 485/491/491H; otherwise, students CANNOT be enrolled in 485/491.

In both cases, students must prepare a proposed syllabus for the respective course(s) using the attached template. Your faculty advisor must approve your proposed syllabus. Note: one 485 / 491 credit hour is equivalent to 4 scheduled work hours per week. Thus, if the student registers for 3 credits of 485 / 491, the weekly schedule should reflect at least 12 hours of scheduled work over a 15 week semester.

## **How do I know if I should register for ENTC 485 or ENTC 491?**

- Are you learning or embodying something that's already known? ENTC 485
- Are you in pursuit of discovering / advancing knowledge? ENTC 491

**Can I have more than 3 credits of either ENTC 485 or 491 apply to my degree?** No. You can only apply 3 credits each of ENTC 485 or ENTC 491 to your degree. You can register for less than 3 credits of either course; regardless of the number of credits enrolled, you must justify your credit hours per the proposal requirements described above. You may enroll in more than 3 credits of either (e.g., to support Honors thesis), but only 3 credits of either can apply toward your degree.

**Can I have credits of ENTC 485 and ENTC 491 both apply to my degree?** Yes, but only if each are unique learning experiences. That is, using an ENTC 485 and ENTC 491 to construct a year- long engineering or research project is not the spirit of combining these two courses. But, applying specialized skills learned in an ENTC 485 one semester to a novel research project a subsequent semester would likely be two different unique learning experiences. Talk with an advisor to fully understand the details. Also, keep in mind that the total credits of combined 485 and 491 remain 3.

For both courses (ENTC 485 and 491), students must have a **minimum GPA of 3.0**. Students may request approval for a 485 or 491 course to count as a technical elective. Students may take ENTC 491 for Honors research; additional paperwork with the Honors office is required.

## **Procedures**

- Identify a Faculty Advisor, select a topic, and prepare a syllabus proposal as described above.
- Complete the online *REQUEST FOR PERMISSION TO ENROLL IN ENTC 491 or 485* form (including faculty signatures) and syllabus.
- Documents must be submitted the **WEEK BEFORE** classes begin.
- The Advising Office will automatically enroll you in the course if approved.



### Course Information

Course prefix and number:

Term (e.g., Fall 2XXX):

Credit Hours:

### Instructor Information

Name:

Email address:

Department:

### Study Topic

#### **Objectives and Connection to Program Learning Outcomes**

*(what do you expect to learn from the course? Faculty supervisor must also explicitly list the CVEN Program Learning Outcomes that will be assessed and at what level.)*

#### **Approach**

*(how will you go about satisfying the objective(s)?)*

#### **Expected Outcomes/Deliverables**

*(what must you produce, if anything along the semester? Be sure and include deadlines. Note: a **final report is a minimum requirement**, but additional deliverables are expected)*

#### **Weekly Schedule**

*(One 485/491 credit hour is equivalent to 4 scheduled work hours per week. Thus, if the student registers for 3 credits of 485/491, the weekly schedule should reflect at least 12 hours of scheduled work per week for 15 weeks.)*

**Dates**

**Tasks**

Dates	Tasks


**Credit Hour Justification**

*(how do you justify the number of credits being enrolled? One 485/491 credit hour is equivalent to 4 scheduled work hours per week during a regular long semester of 15 weeks. The total number of hours over all weeks must be equivalent in order to justify the credit hours earned for this experience.)*

Activity	Number of hours per week
Direct instruction with faculty supervisor	
Independent learning/research	
Total number of hours per week	

Total number of hours over \_\_\_\_\_ weeks in the \_\_\_\_\_ semester: \_\_\_\_\_

**Grading Scheme**

*(how will your grade be determined at the end of the semester?)*

**Grading Scale:**

- A      90-100%
- B      80<90%
- C      70<80%
- D      65<70%
- F      0<65%

## **Americans with Disabilities Act (ADA)**

*Texas A&M University is committed to providing equitable access to learning opportunities for all students. If you experience barriers to your education due to a disability or think you may have a disability, please contact Disability Resources in the Student Services Building or at (979) 845-1637 or visit <http://disability.tamu.edu>. Disabilities may include, but are not limited to attentional, learning, mental health, sensory, physical, or chronic health conditions. All students are encouraged to discuss their disability related needs with Disability Resources and their instructors as soon as possible.*

## **Academic Integrity**

***Aggie Honor Code: "An Aggie does not lie, cheat, or steal, or tolerate those who do."***

As engineers, we must follow a strong code of ethics to ensure the safety of the public. We expect Texas A&M students, as part of their professional training, to understand and follow the Aggie honor code, found at <http://aggiehonor.tamu.edu> . The Dean of Faculties asks us to remind you that, "Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements of the processes of the Honor System."