

~~Innovation Leadership Honors Program~~ ~~Engineering Honors Program~~

Commented [DM1]: Name change required to meet the character limit requested by the university registrar

~~Increasingly, engineers are expected to be able to collaborate effectively with a wide variety of other problem solvers including lawyers, economists, historians, artists and politicians. The ability to seek out, appreciate and incorporate elements of economics, sociology, psychology and business to identify possible solutions to pressing problems will be a major part of the future of engineering.~~

The College of Engineering and Computer Science launched its ~~Innovation Leadership Honors Program (ILHP)~~ honors in the major program specifically to address ~~these new requirements. ILHP offers a comprehensive, coordinated program incorporating~~ leadership, innovation and entrepreneurship within the engineering and computer science curriculum, placing FAU at the forefront of engineering education. The ~~ILHP-Engineering Honors program~~ also provides students with invaluable practical ~~internship~~ experience and access to industry leaders.

~~Innovation Leadership scholars complete both the degree requirements of their selected major and the special requirements of the ILHP. The requirements total 9 credits.~~

For more information, contact the program coordinators at innovate@fau.edu or 561-297-2492, or visit the [website](#).

Eligibility Requirements

Engineering and Computer Science students with strong academic records and interest in improving their leadership and innovation skills are encouraged to apply for the ~~ILHP Engineering Honors~~ program. Students must meet the following program entry requirements:

- ~~1. A cumulative GPA of at least 3.25 (both from FAU and any other previous institutions of higher education attended).~~
- ~~2. After being admitted to the ILHP, students must maintain a GPA of 3.25. If a student's overall GPA falls below 3.25, a one-semester grace period may be given for improvement.~~
1. Junior standing (must have completed 60 credits towards an engineering or computer science major);
2. Preferred for student to be full-time;
3. Must have a cumulative GPA at the time of application of at least 3.25 in the last 60 credits taken from FAU and any other previous institution of higher education attended;
4. Must not have received any grade lower than a "C" in any collegiate courses;
3. Submission of the [online application](#).

~~Additional eligibility requirements for departments include:~~

~~Department of Civil, Environmental and Geomatics Engineering~~

~~1. Minimum grade of "B+" in Statics for Civil Engineering students.~~

~~2. Minimum grade of "B+" in Plane Surveying for Geomatics Engineering students.~~

~~Department of Ocean and Mechanical Engineering~~

~~1. Minimum grade of "C" in all courses taken.~~

~~2. Minimum grade of "B" in both Statics and Engineering Thermodynamics.~~

Notes:

While it is expected that most students applying for this program will either have United States citizenship or evidence of permanent residence, international students will not be precluded from consideration and acceptance.

~~Acceptance of a student into this honors program will be based on the evaluation of the evidence of leadership skills, innovative capabilities and academic performance as evidenced in their application.~~

~~Degree Program Requirements~~

~~1. Preferred to maintain full-time status (excluding summer semesters), a one-semester grace period may be given if the student decides to study abroad or has other considerations that preclude full-time status. Two ILHP workshops (EGS 3030 and EGS 4031, 1 credit each): Each ILHP student is required to register for these workshops during the first year of the ILHP program, one per semester. The workshops emphasize the elements of leadership and leadership development with the involvement of team projects and hands-on activities.~~

~~2. Must maintain cumulative GPA >3.25. If a student's overall GPA falls below 3.25, a one-semester grace period may be given for improvement. Innovation Leadership Internship (EGS 4942, 1 credit): Each ILHP student is required to complete the internship during the ILHP program, where the student will have a leadership role on a team-based project. The Division of Engineering Student Services and Advising at the College of Engineering and Computer Science and the FAU Career Center assist in placing students in engineering internships. A written report and oral presentation of the student's work and experience is required.~~

~~3. Must not receive any grade lower than "C" in any collegiate course; cannot repeat any collegiate courses. Innovation and Entrepreneurship: (EGN 4641, 3 credits): Each ILHP student is required to complete this course during the first year in the program. The contents of the course include the principle of creativity, critical thinking, innovation, entrepreneurship, intellectual property, business and financial plans and marketing. Students develop and present to potential sponsors a proposal for a venture-funded team project.~~

4. Must be actively involved in and provide leadership to a student club/society of their choice during their junior and senior years.

5. Must participate in the FAU Undergraduate Research Symposium.

6. Must complete the following coursework:

One of the following two courses, depending upon designated major:

A. 3 credits of core electives (select 3 from the following list of 1 credit options):

- EDF3912 RI: Multidisciplinary Research Methods 2 (1 cr) or IDS3911 Introduction to Research Design (1 cr)
- IDS3949 Professional Internship (1 cr) or EGN3941 Engineering Professional Internship (1 cr)
- SPC3597 Honors Speech and Debate (1 cr), or ISC2932 Honors Scientific Writing 1, or IDH3720 Honors Law in the Real World

Formatted: Bulleted + Level: 1 + Aligned at: 0.25" + Indent at: 0.5"

B. 6-credit capstone design sequence with honors compact

C. Register for EGN4933 Engineering Honors Seminar class (0 cr) every semester while in the program. Class is graded S/U and meets periodically.

Honors Directed Independent Study (EGN 4906, 3 credits):

a. Allows an Ocean and Mechanical Engineering ILHP student to carry out collaborative research projects in the Innovations and Leadership Laboratory. The projects enable students to investigate multi-disciplinary, open-ended problems with systematic design and development plans. This course can be counted as a technical elective for the Mechanical Engineering program but not for the Ocean Engineering program.

b. Allows a Civil, Environmental and Geomatics Engineering ILHP student to carry out an honors practical project supervised by a department faculty member and a department advisory board member. Successful completion of the project includes, but is not limited to, a final presentation and a conference paper or poster submission. This course can be counted as a 3-credit Civil Engineering technical elective.

c. Allows a Computer & Electrical Engineering and Computer Science ILHP student to perform research or create a project guided by a department faculty member. At the end of the semester, the student is expected to turn in a paper or an extended technical report. This course can be counted as a 3-credit technical elective.

Formatted: collettexthead

- Honors Undergraduate Thesis (EGN 4972, 3 credits):

a. A Computer & Electrical Engineering and Computer Science ILHP student who chooses this course must find a thesis advisor who will be his/her main guide in a basic or applied research project. The student and the advisor jointly form a three-member thesis committee (consisting of at least one more Department of Computer & Electrical Engineering and Computer Science faculty member). It is the student's responsibility to

Formatted: collettexthead

Formatted: Bulleted + Level: 1 + Aligned at: 0.25" + Indent at: 0.5"

take the leadership role in organizing his/her thesis defense. The submitted thesis must be bound and be in a format similar to FAU master's theses. This course can be counted as a 3-credit technical elective.

Example Flight Plan

<u>Junior Year Fall Term</u>		
<u>Engineering Honors Seminar</u>	<u>EGN4933</u>	<u>0</u>
<u>Core Elective 1</u>		<u>1</u>
<u>Junior Year Spring Term</u>		
<u>Engineering Honors Seminar</u>	<u>EGN4933</u>	<u>0</u>
<u>Core Elective 2</u>		<u>1</u>
<u>Junior Year Summer Term</u>		
<u>Engineering Honors Seminar</u>	<u>EGN4933</u>	<u>0</u>
<u>Core Elective 3</u>		<u>1</u>
<u>Senior Year Fall Term</u>		
<u>Engineering Honors Seminar</u>	<u>EGN4933</u>	<u>0</u>
<u>Engineering Capstone Design 1</u>		<u>3</u>
<u>Senior Year Spring Term</u>		
<u>Engineering Honors Seminar</u>	<u>EGN4933</u>	<u>0</u>
<u>Engineering Capstone Design 2</u>		<u>3</u>

Formatted: collettexthead

~~5. All ILHP students must participate in a College ILHP day every semester to share information and insights into academic and professional activities.~~

~~6. All ILHP students (except Computer Science majors) must be actively involved in and provide leadership to any of the student clubs/societies of their choice.~~

~~-~~

~~7. All ILHP students must either present or participate in FAU Undergraduate Research Symposiums.~~