

New Program Proposal

Undergraduate Studies Committee program proposal presentation deadline: February 13, 2018

Graduate Studies Committee program proposal presentation deadline: February 8, 2018

*All program proposals must be received by the University Faculty Council by March 1, 2018 to be considered for the 2018 - 2019 academic year.**

**Please note that a submitted program proposal form must be reviewed/approved by departmental leadership and Academic Affairs before it may be presented to the Undergraduate Studies Committee, Graduate Studies Committee, or University Faculty Council.*

All fields that are outlined in red are required fields.

Requestor	Name	<input type="text" value="Sarah Pariseau"/>	E-mail	<input type="text" value="sparisea@iit.edu"/>
Origination Date	<input type="text" value="2017-11-8"/>			
Is this an interdisciplinary program?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
<i>Note: An interdisciplinary program is defined as a program that is not administered by an academic department(s), but is administered by the larger college administrative unit. Co-terminal or dual degree programs are NOT considered interdisciplinary programs in this sense.</i>				
Academic Unit	<input type="text" value="Electrical & Computer Engrg"/>	College	<input type="text" value="Armour College of Engineering"/>	
Program Title	<input type="text" value="Bachelor of Science in Computer Engineering"/>			
Effective Academic Year	<input type="text" value="2018 - 2019"/>	Effective Term	<input type="text" value="Fall 2018"/>	
Academic Level	<input type="text" value="Undergraduate"/>			
Program Type	<input type="text" value="Degree"/>			
Degree Type	<input type="text" value="Bachelor of Science(BS)"/>			

The CIP code is required to make the program U.S. Financial Aid Eligible. This six-digit code identifies, to the greatest specificity possible, an entire instructional program. The classification scheme seeks to comprehensively address all areas of study. The first two-digits are the first cut off of detail and describe the general discipline of the program. For example, any program with a CIP code that starts with 14 is within the engineering discipline; anything with a 22 is within the legal discipline. The next two digits increase the level of detail, and the final two-digits provide the highest level of detail.

CIP Code

Is there more than one Academic Unit proposer?

Yes No

You may propose a program code and/or attribute below. The availability of the requested program code or attribute will be validated after submission. Please note that not all programs require a program attribute.

Program Code	<input type="text" value="BS-CPE"/>
Program Attribute	<input type="text"/>
Total Program Credit Hours	<input type="text" value="131"/>

Program Narrative and Justification

Illinois Tech has reviewed and determined as an institution that we need to collect the below information regarding marketing and employment analysis for new programs, using the Department of Education's gainful employment criteria to establish best practices.

Illinois Tech also requires that new program proposals receive a marketing analysis from the Office of Marketing and Communications. The Marketing Analysis Request Form is available [online](#).

Narrative description of how the institution determined the need for the program. For example, describe what need this program will address and how the institution became aware of that need. If the program is replacing a current program(s), identify the current program(s) that is being replaced by the new program(s) and provide details describing the benefits of the new program(s). If the program will be offered in connection with, or in response to, an initiative by a governmental entity, provide details of that initiative.

Insert text here

Narrative description of how the program was designed to meet local market needs, or for an online program, regional or national market needs. For example, indicate if Bureau of Labor Statistics data or State labor data systems information was used, and/or if State, regional, or local workforce agencies were consulted. Include how the course content, program length, academic level, admission requirements, and prerequisites were decided; including information received from potential employers about course content; and information regarding the target students and employers.

Insert text here

Narrative description of any wage analysis the institution may have performed, including any consideration of Bureau of Labor Statistics wage data related to the new program.

Insert text here

Bureau of Labor Statistics data may be accessed at bls.gov/data

Narrative description of how the program was reviewed or approved by, or developed in conjunction with, one or more of the following: a) business advisory committees; b) program integrity boards; c) public or private oversight or regulatory agencies (not including the state licensing/authorization agency and accrediting agency); and d) businesses that would likely employ graduates of the program. For example, describe the steps taken to develop the program, identify when and with whom discussions were held, provide relevant details of any proposals or correspondence generated, and/or describe any process used to evaluate the program.

Insert text here

What are the enrollment estimates?

Year 1 Year 2 Year 3

Attach Additional Program Justification Document(s) Uploading files requires [Adobe Flash 10](#). If you are required to attach files to this request, you will not be able to submit the request.

Uploaded Files:
Files To Be Uploaded:

Academic Information

Advising

Since quality advising is a key component of good retention, graduation, and career placement, how will students be mentored? What student professional organizations will be formed? How will the department work with the Career Services office to develop industry connections?

Insert text here

Program Resources

Which program resources are necessary to offer this program?

- Personnel
- Facilities

Describe the facilities requirements necessary to offer the program. Describe how and when resources will be made available to obtain any additional facilities that are required.

A new computer lab





Proposed Bulletin Entry

Admission Requirements





<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Styles <input type="text"/>	<input type="text"/>		
General Illinois Tech first-year applicant requirements			

Program Outcomes and Assessment Process

What are the learning goals for this program?

Learning goal	Student work/assignments used to assess achievement of this goal	
<input data-bbox="94 195 615 275" type="text" value="Insert text here"/>	<input data-bbox="638 195 1284 275" type="text" value="Insert text here"/>	  

What should students be able to do after successfully completing the program?

Student objective/goal	
<input data-bbox="133 651 1149 730" type="text" value="Insert text here"/>	  

How often and by whom will data be collected? How often and by whom will the data be analyzed?

Identify rubric for assessing completion of student learning goals.

What benchmarks or targets will be used to interpret your results?

Insert text here

How will you use your assessment results to improve the program?

Insert text here

Undergraduate Program Requirements

Undergraduate Degree Requirements

Illinois Institute of Technology requires that the final 45 semester hours of an undergraduate degree must be completed at Illinois Tech.

Minimum credit hours

Specialization required?

Yes
 No
 Optional

Minor required?

Yes
 No

Proposed General Curriculum

Detail the courses needed for the program including courses currently offered and new courses to be developed. Using the toolbar below, click on "Insert/Edit Formatted Table" and use the Course List option.

List Major Course Requirements

Format ▾	Styles ▾		

Course List		
ECE 100	Introduction to the Profession I	3
ECE 211	Circuit Analysis I	3
ECE 213	Circuit Analysis II	4
ECE 218	Digital Systems	4
ECE 242	Digital Computers and Computing	3
ECE 311	Engineering Electronics	4
ECE 441	Microcomputers	4
ECE 485	Computer Organization and Design	3

List Mathematics

Requirements 

Course List		
MATH 151	Calculus I	5
MATH 152	Calculus II	5
MATH 251	Multivariate and Vector Calculus	4
MATH 252	Introduction to Differential Equations	4

List Science

Requirements 

Course List		
PHYS 123	General Physics I: Mechanics	4
PHYS 221	General Physics II: Electricity and Magnetism	4
PHYS 224	General Physics III for Engineers	3

List Computer
Science

Requirements 

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Format <input type="text"/>	Styles <input type="text"/>	<input type="text"/>	Source <input type="text"/>

Course List		
CS 115	Object-Oriented Programming I	2
CS 116	Object-Oriented Programming II	2
CS 330	Discrete Structures	3
CS 331	Data Structures and Algorithms	3

List Humanities and Social Sciences

Requirements 

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Normal <input type="text"/>	Styles <input type="text"/>	<input type="text"/>	Source <input type="text"/>

21 credit hours - see core curriculum requirements

List Interprofessional Project (IPRO)

Requirements 

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Format <input type="text"/>	Styles <input type="text"/>	<input type="text"/>	Source <input type="text"/>

6 credit hours - see core curriculum requirements

List Technical
 Elective Course
 Options

Format ▾
Styles ▾

Source

6-8 credit hours of professional ECE electives

List Free Elective
 Credit Hours (if
 applicable)

Provide a sample semester by semester curriculum and the program requirements, as they would appear in the Illinois Institute of Technology Bulletin. Using the toolbar below, click on "Insert/Edit Formatted Table" and use the Plan of Study Grid option.

Semester-by-
 semester plan of
 study for the
 degree program

Format ▾
Styles ▾

Source

Plan of Study Grid

YEAR 1			
SEMESTER 1	CREDIT HOURS	SEMESTER 2	CREDIT HOURS
ECE 100	3	MATH 152	5
MATH 151	5	PHYS 123	4
CHEM 122	3	CS 116	2
CS 115	2	Social Sciences Elective	3
Humanities 200-level Course	3	Science Elective ¹	3
16		17	