Program Change Request

Viewing: MFG : Minor in Manufacturing Engineering

Last approved: 11/22/19 8:22 pm

Last edit: 11/09/22 1:55 pm

Changes proposed by: vural

Catalog Pages Using this Program	Minor in Manufacturing Engineering

Program Status	Active		
Is this a significant curriculum change?			
Requestor	Name Murat Vural ~~Candace Wark~~	E-mail	vural@iit.edu ~~wark@iit.edu~~
Origination Date	2022-11-9 ~~2019-5-3~~		
Is this an interdisciplinary program?	No		
Academic Unit	Mechl, Materials & Arspc Engrg	College	Armour College of Engineering
Contributing Academic Unit(s)			
Program Title	Minor in Manufacturing Engineering		
Effective Academic Year	2022 ~~2020~~ - 2023 ~~2021~~	Effective Term	Spring 2023
Academic Level	Undergraduate		
Program Type	Minor		
Degree Type			

Are you seeking Title IV federal financial aid student eligibility status for this program?

No

CIP Code	
SOC Code	

Is there more than one Academic Unit proposer?

No

Which Academic Units?	
Second CIP	
Program Code	MFG
Program Attribute	
Total Program Credit Hours	15
Rationale for change in program credit hours.	
Please provide a summary and rationale for the	CAE 523 and CHE 426 are identical courses which are cross-listed and taught by the same instructor in the same time slot. So, adding CHE 426 to the list of courses will help student to register for more easily because CAE 523 requires graduate standing or department permits.

requested program
revision.

Program Narrative and Justification

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 be
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
the program will be offered in connection with, or in response to, an initative by a governmental entity, provide details of that initiative.

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 i
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, p
level, admission requirements, and prerequisites were decided; including information received from potential employers about course content; and information regardir
and employers.

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 pr

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
boards; c) public or private oversight or regulatory agencies (not including the state licensing/authorization agency and accrediting agency); and d) businesses that would
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 prop
generated, and/or describe any process used to evaluate the program.

What are the enrollment estimates?

Year 1   Year 2   Year 3

Attach Additional
Program
Justification
Document(s)

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
the department work with the Career Services office to develop industry connections?

How will advising responsibilities be shared between the departments?

Program Resources

Which program
resources are
necessary to offer
this program?

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

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 r

Proposed Bulletin Entry

Admission
Requirements

Course Requirements

Select a minimum of 15 credit hours from the following: [1]

CAE 523	Statistical Analysis Engg Data
or CHE 426	Statistical Tools Engineers
EMGT 406	Entrepreneurship & IP Mgmt [2]
EMGT 470	Project Management [2]
ENGR 200	Entrepreneurship NOW!

& ENGR 411	and Fabrication Practices [2]	
INTM 436	Lean Manufacturing	
INTM 441	Supply Chain Management	
INTM 446	Manufacturing & Logistics Info	
MMAE 485	Manufacturing Processes	
MMAE 546	Adv Manufacturing Engineering	
MMAE 547	Comp Intgrted Manuf Technlgies	
MMAE 557	Comp Intgrtd Manfctrng Systms	
MMAE 560	Ststcl Quality Procs Control	
MMAE 589	Apps in Reliability Engg I	
MMAE 590	Apps Reliabilty Engineering II	

Total Credit Hours

[1]
Minor courses may not be courses required for a degree program. A minimum of nine credit hours must be MMAE courses.

[2]
Students may only apply one of the following selections to their minor requirements: EMGT 406, EMGT 470, or ENGR 200 and ENGR 411.

Sample
Curriculum/Program
Requirements

Specialization
Requirements

Program Outcomes and Assessment Process

What are the
learning goals for
this program?

In what semesters
will the data be
collected to assess
this learning goal,
and by whom?

Provide the name
of the rubric that
will be used to
assess the extent to
which students are
achieving this
learning goal.

How often and by
whom will the data
be analyzed? What
benchmarks or
targets will be used
to interpret your
results?

Briefly describe the
process that will be
used to share the
results with faculty
and use these to
motivate program
improvement.

Attach Additional
Assessment
Document(s)

Partner Degree Program Requirements

Partner institution

Partner institution
contact information

Partner degree title

with major

Partner program
director for IIT

Program format
type

Shared credit for
partner program

How are credits
shared?

Which courses may
be shared?

Partner program specific admission requirements, including the methodology to be used to confirm the minimum cumulative GPA for admission (a grading scale crosswa

Applicant admission process description (nomination of applicants by partner institution, acceptance of nominated applications by Illinois Institute of Technology).

Attach
Supplemental
Material for Partner
Institution

Undergraduate Program Requirements

Co-Terminal Degree Requirements

Double Major Requirements

Program Details

Supporting
documentation

Undergraduate Degree Requirements

Minimum credit
hours

Specialization
required?

Notes about
specialization
requirement

Minor required?

How many credit
hours are required
for the minor?

Details about the
minor requirement

Required minimum
GPA for admission

Number of shared
credit hours
allowed.

Which courses may
be shared?

Proposed General Curriculum

Degree credit hours
required

Specialization
credit hour
requirement

List Major Course
Requirements

List Mathematics
Requirements

List Science
Requirements

List Computer
Science
Requirements

List Humanities and
Social Sciences
Requirements

List
Interprofessional
Project (IPRO)
Requirements

List Technical
Elective Course
Options

List Free Elective
Credit Hours (if
applicable)

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

Graduate Program Requirements

Certificate

Is at least 50% of the requested certificate program made up of existing courses, or is the program a subset of an existing degree program?

Yes, one or both of these conditions apply.
No, neither of these apply.

Minimum credit
hours

Is the certificate program a competency-based education (CBE) program? This would include credit-based, direct assessment or hybrid CBE programs.

How will the certificate program be offered? Select all that apply. (See HLC's Glossary for definitions of distance and correspondence education.)

Has the institution outsourced a portion of the program to an entity not accredited by an agency recognized by the U.S. Department of Education?

List Certificate
Course
Requirements

Professional Master's Degree

Minimum credit
hours

hours

400-level credit hour
limit?   How many hours allowed?

500-600-level credit hour limits: Minimum: Maximum:

700-level credit hour maximum:

Project course
required?

Project course credit hours minimum   Maximum   Course Number

List specific details
about the project
option

Project
report/review
required?

Comprehensive
exam required?

Seminar/Colloquium
required?

Seminar/colloquium credit hours required   Course Number

Required
specialization/
concentration?

Specialization/concentration credit hour requirement:

Notes about the
specialization/
concentration
requirement

Is there a general track for this degree?

List Core Course
Requirements

List Elective Course
Options

How will current graduate students in your department request a transfer to this major?

Master of Science (M.S.) Degree

Minimum credit
hours

400-level credit hour limit?   How many hours allowed?

500-600-level credit hour limits: Minimum: Maximum:

700-level credit hour maximum:

Thesis required?

List specific details
about the thesis
option

Comprehensive
exam required?

By what method is
the thesis
defended?

Research course credit hours   Minimum   Maximum

Project course

required?

List specific details
about the project
option

Project report/
review required?

Project course credit hours   Minimum   Maximum   Course Number

Seminar/Colloquium
required?

Seminar/colloquium credit hours required   Course Number

Required
specialization/
concentration?

Specialization/concentration credit hour requirement:

Notes about the
specialization/
concentration
requirement

Is there a general track for this degree?

List Core Course
Requirements

List Elective Course
Options

How will current graduate students in your department request a transfer to this major?

JD/JSD

....

Ph.D.

....

Minimum credit
hours

400-level credit hour limit?   How many hours allowed?

500-600-level credit hour limits: Minimum: Maximum:

700-level credit hour maximum:

By what method is the qualifying exam requirement satisfied for this program? Include the number of earned/in-progress credit hours when the qualifying exam must be

The comprehensive exam is required to be completed at least one year prior to the thesis defense. Please identify the time and method of examination for this program.

The oral defense must be completed and final dissertation documents submitted to the research committee by the deadline in the Sequence of Events. Describe the met
this program.

Seminar/Colloquium
required?

Seminar/colloquium credit hours required   Course Number

Research course credit hours   Minimum   Maximum

Required
specialization/
concentration?

Specialization/concentration credit hour requirement:

JD/JSD Degree
Requirements

List Core Course
Requirements

List Elective Course
Options

Does this program accept transfer credit?

How will the
transfer credit be
applied to the
degree
requirements (e.g.
block transfer,
course-by-course
articulation).

Specializations/Concentrations

Report to Faculty
Council

Report from Faculty
Council

Reviewer
Comments