Industrial Engineering MS
iPOS Information Session

Fall 2015
Interactive Plan of Study (iPOS)

The Plan of Study (iPOS) functions as a contract between the student, the academic unit, and the Office of Graduate Education.

- iPOS Help Page
- All Master’s students must submit their iPOS in their first semester
iPOS Submission

Access your iPOS through MyASU

Select degree requirements and anticipated graduation term.

Graduate Plan of Study

Plan: Industrial Engineering (MS)

Degree Requirements

For assistance with completing the Plan of Study, please contact your academic unit office at 480/965-3199 or by email at cidse.advising@asu.edu. You may also visit their website at http://cidse.engineering.asu.edu.

To be awarded this degree, you must complete the following requirements. Select the radio button to confirm that you are in agreement with the degree requirements:

- 30 credit hours and a thesis
- 30 credit hours and a written comprehensive exam

Anticipated Graduation Term

Please select the term that you anticipate you will be graduating

- Questions concerning program requirements should be directed to your academic unit and/or advisor.
- Questions concerning technical issues with the Interactive Plan of Study (iPOS) may be emailed to iPos-md@asu.edu.
iPOS Submission

Graduate Plan of Study

Select ASU Courses
This step allows you to select courses from your ASU transcript to add to your POS. You may also add courses that you plan to complete in future semesters, in the ASU course catalog.

Please select one of the links below to continue; afterward, you will return automatically to this page.

Transcript
Select courses from my transcript

Future
Select future courses

Save and Continue

Transcript: All courses taken, currently taking, or registered in

Future: Courses you plan to take in a future semester
iPOS Submission

Non-Thesis: Dr. Esma Gel, Program Chair

Thesis: Faculty Chair
Completed iPOS

Graduate Plan of Study

General

Degree Plan: Industrial Engineering (MS)
Admitted: 2014 Fall
Graduation Deadline: 2020 Summer
Minimum Hours Required: 30.00
Total Hours on POS: 31.00
Current POS GPA
Overall Graduate GPA
Program of Study Status: POS Approved

Degree Requirements

30 credit hours and a written comprehensive exam
Graduate Written Exam: Incomplete

Advisor/Committee

Gul Esma Senturk: Chair
Assoc Professor
Sch Compt Infor & Dec Sys Eng

ASU and Transfer Courses

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014 Fall</td>
<td>IEE 505</td>
<td>Information Systems Engr</td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td>2014 Fall</td>
<td>IEE 572</td>
<td>Design Engineering Experiments</td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td>2014 Fall</td>
<td>IEE 574</td>
<td>Appl Deterministic Oper Resh</td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td>2015 Spring</td>
<td>IEE 534</td>
<td>Supply Chain Modeling/Analysis</td>
<td>2.00</td>
<td></td>
</tr>
<tr>
<td>2015 Spring</td>
<td>IEE 545</td>
<td>Simulating Stochastic Systems</td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td>2015 Spring</td>
<td>IEE 575</td>
<td>Appl Stochastic Oper Resh Mtls</td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td>2015 Summer</td>
<td>IEE 584</td>
<td>Internship</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td>2015 Fall</td>
<td>IEE 535</td>
<td>Intro Intl Logistics Systems</td>
<td>2.00</td>
<td></td>
</tr>
<tr>
<td>2015 Fall</td>
<td>IEE 578</td>
<td>Regression Analysis</td>
<td>2.00</td>
<td></td>
</tr>
<tr>
<td>2015 Fall</td>
<td>IEE 581</td>
<td>Six Sigma Methodology</td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td>2016 Spring</td>
<td>IEE 561</td>
<td>Production Systems</td>
<td>3.00</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours: 31.00
The number of credits removed should be equivalent to the number of credits added.

**Update**: remove courses you did not take or change the term (i.e. from Spring to Fall)

**Add**: actual courses taken (from transcript) or courses planned in the future

<table>
<thead>
<tr>
<th>Institution</th>
<th>Term</th>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASU</td>
<td>2015 Fall</td>
<td>IEE 505</td>
<td>Information Systems Engr</td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td>ASU</td>
<td>2015 Fall</td>
<td>IEE 511</td>
<td>Analysis of Decision Processes</td>
<td>3.00</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Institution</th>
<th>Term</th>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASU</td>
<td>2015 Fall</td>
<td>IEE 581</td>
<td>Six Sigma Methodology</td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td>ASU</td>
<td>2015 Fall</td>
<td>IEE 572</td>
<td>Design Engineering Experiments</td>
<td>3.00</td>
<td></td>
</tr>
</tbody>
</table>

All degree requirements must still be met.
Industrial Engineering M.S.
30 credit hours

4 Core Courses:
- IEE 505 or IEE 506
- IEE 572 or IEE 573 or IEE 578
- IEE 545 or IEE 561
- IEE 574 or IEE 575

*Core must be completed by the 18th credit hour applied to the iPOS

THESIS OPTION (3.2 GPA required)
- 3-4 Courses from one area
  - Areas: OR, PSL, IMS, IS
- 0-1 Electives – Outside of IE must get approval
- IEE 599 Thesis (6 hrs.)
- Successfully defend and pass the oral thesis defense

NON- THESIS OPTION
- 4 Courses from one area
  - Areas: OR, PSL, IMS, IS
- 2 Electives – Outside of IE must get approval
- Pass a Comprehensive Exam on 3 out of the 4 Core Courses.
Special Program: Engineering Logistics

Supervising faculty: Drs. Esma Gel and Rene Villalobos

- **Four core courses**
- **Required classes:**
  - IEE 534 Supply Chain Modeling and Analysis. (3)
  - IEE 535 Introduction to International Logistics Systems. (3)
- **Two courses from the following list:**
  - IEE 530 Enterprise Modeling. (3)
  - IEE 533 Scheduling (3)
  - IEE 561* Production Systems. (3)
  - IEE 574* Applied Deterministic Operations Research Models. (3)
  - IEE 598 Network Flows
- **Two more elective course or Research and Thesis**

* These courses may be used as area or core courses but not both.
## Lean Six Sigma Black Belt Certificate

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEE 570 Advanced Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>IEE 581 Six Sigma Methodology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives (Choose Two Courses)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEE 572 Design Engineering Experiments</td>
<td>3</td>
</tr>
<tr>
<td>IEE 578 Regression Analysis</td>
<td>3</td>
</tr>
<tr>
<td>IEE 561 Production Systems</td>
<td>3</td>
</tr>
<tr>
<td>IEE 530 Enterprise Modeling</td>
<td>3</td>
</tr>
<tr>
<td>IEE 573 Reliability Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

**Culminating Experience**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEE 585 Six Sigma Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Required Credit Hours .............................15

- No more than 40% of the coursework towards the certificate can be completed prior to admission to the program.
- IEE 585 cannot be included in the MS iPOS.
- IEE 581 and IEE 585 cannot be included in the Ph.D. iPOS.
CPT Internship

- **CPT Help Page**
- To be eligible for CPT you must have maintained F-1 status for a minimum of one academic year in current degree program.
- 3.2 cumulative, graduate and iPOS GPA
- No Academic Integrity violations within one year.
- MUST BE LISTED ON INITIAL IPOS!!
  - MAX 2 credits
- ISSC CPT website: [https://students.asu.edu/international/support/f1cpt](https://students.asu.edu/international/support/f1cpt)

  - Proposed employment must be an integral part of an established curriculum and meet one of the following requirements
    1. Internship is required of all candidates for a particular degree program
    2. Internship is required of a particular student’s degree program as a planned option in their degree plan (the intent to include internship is established between student and advisor early on and not added to accommodate employment opportunity).

Taken from ISSC website
CPT and iPOS

Addition of the CPT course(s) should be done at the initial submission of the student’s iPOS during the first semester of study. (Note that each student is required to file an iPOS by the end of his/her first semester of study. Later additions of CPT courses must be requested and approved at least one full semester (fall, spring or summer) prior to the proposed start date of the internship course. For example, a student planning to do an internship during the summer semester should have an approved iPOS with the internship course before the beginning of classes in the preceding Spring semester. The Internship course cannot be added to an approved iPOS once all coursework has been completed. Exceptions may be made if the internship is relevant to thesis (or dissertation) research.

Taken from CIDSE CPT Policy
CPT and iPOS cont.

The Graduate Program Chair will determine the need for a CPT internship in such cases in consultation with the Graduate Academic Advisor. Note that approval of an iPOS with the CEN/CSE/IEE 584 course confirms that the internship is an integral part of the degree requirements as planned by the student. Hence, students who are not able to fulfill the internship credit requirements in their iPOS are required to replace the course credit requirements through the following options:

- taking a 3-credit hour graduate course,
- taking the 1-credit hour CEN/CSE/IEE 594 seminar course
- signing up for CSE/CEN/IEE 580 Practicum and being involved in various applied projects at the department with faculty,
- taking a one credit hour of CEN/IEE 590 – Reading and Conference (Independent Study). CSE 590 for thesis students only.

Note: The options depend on your program.

Taken from CIDSE CPT Policy