Industrial Engineering
Graduate Program
New Student Orientation

Fall 2015
Introductions

Christina Sebring
Advisor
Ph.D. Students, last name A-K
Master’s Students, last name A-Ja

Ellie Ahmann
Advisor
Ph.D. Students, last name L-Z
Master’s Students, last name Jh-N

Dave Vega
Advisor
Master’s Students, last name O-Z

Araxi Hovhannessian
Manager
Advising

• Advising availability
  – Express Advising (at peak times of the year)
  – Appointments

• How to schedule an appt.
  – [http://fultonapps.asu.edu/advising](http://fultonapps.asu.edu/advising)
  – Telephone: 480-965-3199

The mission of CIDSE Advising is to facilitate the learning and educational processes for our students; to encourage responsibility, independence, and professional behavior; and to build a community of students that respect and value diversity.
Social Events

• New International Graduate Student Social
  – Hosted by GPSA
  – August 14th 5 – 6:30pm
  – Sun Devil Fitness Center – Gold Gym

• Graduate Student Social
  – Hosted by GPSA
  – August 19th 5 – 6:30pm
  – MU Basement, MU TV Lounge
• **Semester Calendar** – Important Dates to remember

- Classes Begin
  - August 20\(^{th}\)
- Add/Drop Deadline
  - August 21\(^{st}\) (A Session)
  - October 15\(^{th}\) (B Session)
  - August 26\(^{th}\) (C Session)
- Tuition Fee Payment Deadline
  - August 25\(^{th}\)
- Tuition Refund Deadline
  - September 2\(^{nd}\) (C Session)
• Access to Computer Labs Technology & Resources – All Computing Informatics and CSE students have access to BYENG 240 after the 1st week of school. All other issues please e-mail cidse.it@asu.edu
General Policies and Procedures

- DEFICIENCIES
  - Must Register for the course
  - Test-out Exam and Reevaluation Petition Procedure
  - Deficiencies must be completed in the first year with a grade of “B” or better
  - Deficiency do not apply to the degree program

- DUTY TO MAINTAIN CURRENT CONTACT INFORMATION
  - Phone and Address

- TIME LIMIT TO DEGREE COMPLETION
  - 6 years for Master student, starting with admission term.
  - For PhD. students: Overall 10 years starting with the admission term or 5 years after passing the Comprehensive Exam, whichever comes first.
• CONTINOUS ENROLLMENT

Students must be registered for a minimum of one graduate credit hour during all phases of their graduate education, including the term in which they graduate.

Registration for every fall semester and spring semester is required. Summer registration is required for students taking examinations, completing culminating experiences, conducting a doctoral prospectus, defending theses or dissertations, or graduating from the degree program.

Grades of “W” (withdrawal) and/or “X” (audit) are not considered valid registration for continuous enrollment purposes.
• PROBATION/DISMISSAL
  – ACADEMIC (4 GPA levels you need to know)
    • OVERALL CUMULATIVE GPA 3.0+
    • ALL GRADUATE COURSES GPA 3.0+
    • POS GPA 3.0+
    • DEFICIENCY GPA 3.0+
  – SATISFACTORY PROGRESS
    • Take the Comp Exam on time & maintain regular contact with your
      faculty chair, not completing the deficiency, failing the Comp Exam.

• ACADEMIC COMMENDATION
  – Any semester in which a student achieves an overall 3.75 or higher GPA
    on six or more credits of Plan of Study courses while in good standing.
# ASU Grade Scale and GPA Calculation

<table>
<thead>
<tr>
<th>Grade</th>
<th>Graduate Definition</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td></td>
<td>4.33</td>
</tr>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4</td>
</tr>
<tr>
<td>A-</td>
<td></td>
<td>3.67</td>
</tr>
<tr>
<td>B+</td>
<td></td>
<td>3.33</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3</td>
</tr>
<tr>
<td>B-</td>
<td></td>
<td>2.67</td>
</tr>
<tr>
<td>C+</td>
<td></td>
<td>2.33</td>
</tr>
<tr>
<td>C</td>
<td>Passing</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>No Graduate Credit</td>
<td>1</td>
</tr>
<tr>
<td>E</td>
<td>Failure</td>
<td>0</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td>—</td>
</tr>
<tr>
<td>NR</td>
<td>No Report</td>
<td>—</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawal</td>
<td>—</td>
</tr>
<tr>
<td>X</td>
<td>Audit</td>
<td>—</td>
</tr>
<tr>
<td>Y</td>
<td>Satisfactory</td>
<td>—</td>
</tr>
<tr>
<td>Z</td>
<td>Course In Progress</td>
<td>—</td>
</tr>
<tr>
<td>XE</td>
<td>Academic Dishonesty</td>
<td>0</td>
</tr>
</tbody>
</table>

Not all instructors use “+” and “-”
The cumulative GPA is capped at 4.00
*For more information visit: [https://students.asu.edu/grades](https://students.asu.edu/grades)
• REPEATING OR WITHDRAWING FROM COURSES

- All graduate courses with a grade of “C” or better are acceptable on the Program of Study (iPOS).
- All grades are calculated into the cumulative GPA.
- A deficiency course with a grade below ‘B’ must be repeated.
- International students should be aware of the consequences of not maintaining full-time status: 9 credit hrs. or 6 credit hrs. as an RA/TA.
- RA/TA employed in Fulton Schools require 12 credits.
Resources at ASU

- Engineering Career Center
  [http://engineering.asu.edu/career/](http://engineering.asu.edu/career/)
- Tuition and Billing
  [https://students.asu.edu/tuitionandbilling](https://students.asu.edu/tuitionandbilling)
- Disability Resource Center
  [https://eoss.asu.edu/drc](https://eoss.asu.edu/drc)
- ASU Counseling Services
  [https://eoss.asu.edu/counseling](https://eoss.asu.edu/counseling)
- Counselor Training Center
  [https://cls.asu.edu/ctc](https://cls.asu.edu/ctc)
- ASU Health Services
  [https://eoss.asu.edu/health](https://eoss.asu.edu/health)
Website Review

• CIDSE:
  http://cidse.engineering.asu.edu

• Schedule of classes: MyASU or
  https://webapp4.asu.edu/catalog/

• Graduate Education:
  http://graduate.asu.edu

• International Students and Scholars Center
  http://students.asu.edu/international
Graduate Forms Page and Help Pages

- Program Specific Forms
- Help Pages
  - Interactive Plan of Study Help Page
  - CPT Help Page
  - Thesis/Defense Help Page

TURN FORMS IN EARLY FOR PROCESSING!!!
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
• PhD students submit at the end of their 1st year.
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

International students must consult with ISSC!!
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.
Course Registration

- 1st Priority is Deficiency Courses
- MS: Core courses, then Area and Elective courses
- Ph.D: IEE 605, IEE 620, IEE 640, IEE 594
- 9 credit hours is full time enrollment
- DO NOT ENROLL IN COURSES YOU DO NOT PLAN TO TAKE!
- Register through MyASU
This concludes the MS portion of the presentation.

Questions?

MS students may leave the room if you do not have any questions.

Ph.D. students, please stay for your portion of the presentation.
Ph.D Program

• Five core Courses
  – Optimization I (IEE 620) Fall 2015
  – Optimization II (IEE 622) Spring 2016
  – Stochastic Processes (IEE 640) Fall 2015
  – Mathematical Statistics (IEE 670) Spring 2016
  – Foundations of Information Systems Engineering (IEE 605) Fall 2015
IE Ph.D. Qualifying Exam
May 2016

• Core Courses
• Must have a cumulative and graduate GPA of 3.0 or higher and completed all deficiencies to sit for the exam.
• Only one reexamination is permitted
• Serves as the culminating event for a Master in Passing Degree.
Master in Passing

- Students without a Master’s degree can request a Master in Passing (MIP) after completing 30 credit hours and passing the Qualifying Exam.

- Students who are interested in an MIP must either:
  1) Enroll in one graduate-level course in the Summer since the Qualifying Exam falls after the end of the Spring semester
     - Continuous Enrollment Policy
  2) Sit for the MS Comp Exam at the next administration.
Industrial Engineering Ph.D. Program

• Plan of Study (85 credit hours)
  – Core (15 hours)
  – Coursework (42 hours)
    • Area (min. 18 hours) and
    • 2 Minor Emphasis (min. 9 hours each minor)
    • Student with a masters degree can transfer up to 30 credits with approval.
  – Academic Preparation (4 hours)
    • IEE 594 (1), 700 (1), and 784 (1)
    • 790 (1) or 584 (1) or an additional credit of 594
  – Research (12 hours)
  – Dissertation (12 hours)
Ph.D Program

- Comprehensive Exam (Oral & Written)
- Dissertation Prospectus
- Dissertation Defense
  ➢ Final culminating event
Questions?