

Industrial and Systems Engineering Graduate Program Requirements (30 Credit hours)

Core Courses (9 Cr. Hours)

IMSE 511
(3 Cr.) W, S2

And

IMSE 554
(3 Cr.) F, S1

And

IMSE 580
(3 Cr.) F, W, S1

Key Tentative Schedule

F-Fall Term
W-Winter Term
S1-Summer Half I Term
S2-Summer Half II Term
Occ-Occasionally

And

Concentration Areas (12 Credit Hours)

A minimum of 12 credit hours from the four concentration areas. All four courses can be taken from one concentration area or any combination of the four concentration areas.

Area A Industrial & Systems Engineering

Human Factors & Ergonomics

IMSE 543 (3 cr.) Occ.
IMSE 545 (3 cr.) F
IMSE 546 (3 cr.) W
IMSE 548 (3 cr.) W
IMSE 577 (3 cr.) W
IMSE 593 (3 cr.) S1
AE 546 (3 cr.) W

Operations Research & Management Science

IMSE 505 (3 cr.) F
IMSE 514 (3 cr.) F
IMSE 5205 (3 cr.) S2
IMSE 5215 (3 cr.) F
IMSE 559 (3 cr.) Occ.
IMSE 605 (3 cr.) W
IMSE 606 (3 cr.) F

Area B Integrated Design & Manufacturing Engineering

Quality Systems Design

IMSE 513 (3 cr.) Occ.
IMSE 519 (3 cr.) F
IMSE 561 (3 cr.) F,W
IMSE 567 (3 cr.) W

Advanced Manufacturing & Automation

IMSE 502 (3 cr.) F
IMSE 538 (3 cr.) S2
IMSE 5655 (3 cr.) W

Area C Information Systems

Information Systems Management

IMSE 553 (3 cr.) F,W
IMSE 556 (3 cr.) F,W
IMSE 557 (3 cr.) S1

Enterprise Information Systems

IMSE 555 (3 cr.) F
IMSE 5585 (3 cr.) F
IMSE 564 (3 cr.) W
IMSE 570 (3 cr.) F
IMSE 5715 (3 cr.) F
IMSE 5725 (3 cr.) W
IMSE 574 (3 cr.) F
IMSE 579 (3 cr.) S1

Area D Program Management & Product Development

EM 580 (3 cr.) F, S1
IMSE 515 (3 cr.) F
IMSE 516 (3 cr.) W
IMSE 517 (3 cr.) W

And

Cognate Courses (6 Credit Hours)

At least two graduate-level cognate courses for a minimum of six credit hours in departments other than IMSE, must be elected

And

Remaining 3 Credit Hours

The remaining credit hours may be selected with the approval of the graduate advisor

Or

Master's Thesis

With the approval of the graduate advisor, students may substitute a master's thesis for no more than six credit hours of graduate course work. Students choosing the thesis option are required to elect a minimum of 9 credit hours from the concentration electives, rather than the 12 credit hours stipulated above for the concentration areas. Students must complete 2 of the courses from one of the concentration areas.