

**Industrial & Systems Engineering
2008-2009**

Name: _____ Student ID: _____ Phone: _____

New to OSU: _____ email: _____@osu.edu

YEAR	AUTUMN	WINTER	SPRING
1	Math 151 (Calc & Analyc Geom).....5_____ Chem 121 (Gen Chem).....5_____ Engr 100.10 (Engr Survey).....1_____ Engr 181 (Intro to Engr I)3____	Math 152 (Calc & Analyc Geom).....5_____ Physics 131 (Partcls & Motion).....5_____ Engr 183 (Intro to Engr II).....3_____ GEC.....5____	Math 153 (Calc & Analyc Geom).....5_____ Physics 132 (Electrcy & Magntsm)5_____ CSE 202 (or EG 167).....4_____ English 110.xx (1 st Yr English Comp)...5____
2	Math 254 (Calc & Analyc Geom).....5_____ ME 410 (Statics).....4_____ Econ 200 (Princ of Microecon).....5_____ MSE 205 (Intro to MSE).....3____	Math 255 or 415 (Dff Equal).....5_____ Stats 427 (Intro Prob & Stats Engrs I).....3_____ ME 420 (Strength of Matls).....4_____ Psych 100 (Gen Psych).....5____	ISE 350 (Manufctg Engineering).....3_____ Math 571 or 568 (Linear Alg).....3_____ ISE 504 (Engr Econ Analysis).....3_____ Stats 428 (Intro Prob Stats Engrs II).....3_____ GEC.....5____
3	ISE 500 (Intro to ISE).....3_____ ME 430 (Dynamics).....4_____ 2 nd Writing GEC.....5_____ Acctg 501 (Acctg & Cost Analysis).....3____	ISE 501 (Operations Research I).....5_____ ISE 520 (Operations Research II).....3_____ ISE 560 (Physl Biomech Wrk Dsgn).....3_____ Additional Science ¹4_____ GEC.....5____	ISE 521 (Operations Research III).....3_____ ISE 540 (Production Systems I).....4_____ ISE 550 (App Math Modlg Matls Proc)....3_____ ISE 670 (Cognitive Engr).....3_____ Technical Elective
4	ISE 510 (Statistcl Process Control).....3_____ ISE 541 (Production Systems II).....4_____ ISE 542 (Production Systems III).....4_____ ISE 681 (Engr Project Mngmt).....3____	ISE 680.01 (Indst Pract Sys Dsgn I).....4_____ ISE 610 (Plang Engr Experiments).....3_____ Technical Elective Technical Elective Technical Elective	ISE 680.02 (Indst Pract Sys Dsgn II).....4_____ ECE 300 & 309 (Electrical Circuits).....4_____ GEC.....5_____ Technical Elective

GENERAL EDUCATION (35 hrs)

English & Communication Skills (10)

English 110.xx (5) _____
2nd Writing Course (5) _____

Students must take 25 hours across Social Sciences, Historical Study, and Arts & Humanities with a minimum of 5 hours and maximum of 10 hours per category.

Historical Study (5-10)

_____ () _____
_____ () _____

Arts & Humanities (5-10)

_____ () _____
_____ () _____

Social Sciences (5-10)

Econ 200 (5) _____
Psych 100 (5) _____

Ethics (5)

(May overlap with another GEC Category)
_____ () _____

Social Diversity

(May overlap with another GEC Category)
_____ () _____

TECHNICAL ELECTIVES (15 hrs)

_____ () _____
_____ () _____
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ADMISSION CONDITION

_____ () _____
_____ () _____
_____ () _____

Sub-total Core143

General Education35

Technical Electives15

TOTAL HOURS193

1. Choose one (1) of the following:

Chemistry 122; Chemistry 125;

or Physics 133

SUBSTITUTIONS: If a student is transferring to ISE from another program, the following are approved substitutions:

ENG H191 & H193 = ENG 181 & 183

CSE 202 = EnGRAPH 167 OR ENG H192

MATH 255 = MATH 415

MATH 571 = MATH 568

Acceptance into the Industrial & Systems Engineering major is limited to 90 students per year and will depend on the cumulative point-hour ratio (CPHR) and the secondary point-hour ratio (SPHR) upon completion of the following pre-major courses: *English 110.xx, Engineering 181,183; CSE 202 or approved substitute, Math 151,152,153; and Physics 131,132.* A minimum SPHR of 2.0 is required. Formal application is required. Applications must be submitted January 10 or April 10 preceding the quarter the student plans to take ISE 500. See the departmental office (BE 210) for application.