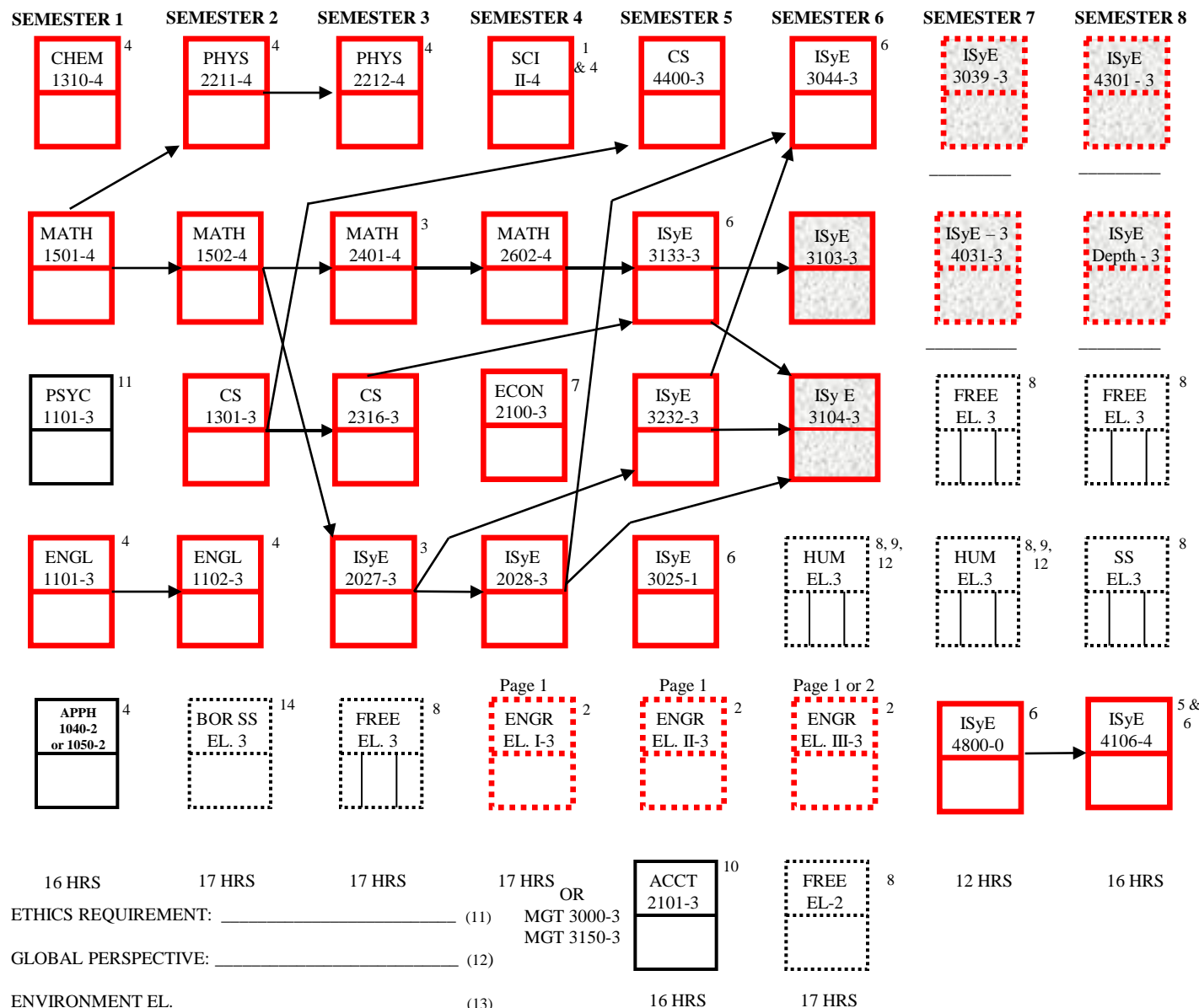


GENERAL CONCENTRATION

BSIE PROGRAM for the 2014-2015 Year



16 HRS
ETHICS REQUIREMENT: _____ (11)

17 HRS
GLOBAL PERSPECTIVE: _____ (12)

17 HRS
ENVIRONMENT EL. _____ (13)

17 HRS OR
BOR SOCIAL SCIENCE EL. _____ (14)

ACADEMIC ADVISOR _____

17 HRS
MGT 3000-3
OR
MGT 3150-3

16 HRS
ACCT 2101-3

17 HRS
FREE EL-2

TOTAL ISYE CREDIT HOURS: 128

- (1) Science Electives: BIOL 1510, EAS 1600 or 1601 or 2600. Only one EAS allowed. Advisor approval required to take BIOL 1520.
- (2) 9 hours Engineering Electives (Non-ISyE) are required from approved list: <http://www.isye.gatech.edu/academics/undergraduate/courses/>. At least 2 courses from page 1.
- (3) MATH 2401 is Co-requisite or Pre-requisite for ISYE 2027.
- (4) APPH, English, Lab Sciences and Physics must be taken prior to your Junior year.
- (5) You must be within 2 semesters of graduation to register for Senior Design. (Summers Excluded) and complete 4 of 6 Concentration courses before Senior Design.
- (6) All ISYE required courses must be completed prior to Senior Design (see other side for required courses).
- (7) (ECON 2100 or 2101), or (2105 or 2106) (Credit cannot be allowed for both ECON 2100 and 2101, and if you take 2100 or 2101 you will NOT receive credit for either 2105 or 2106)
- (8) Only 9 hours allowed Pass/Fail within Social Sciences, Humanities and Free Electives. No other courses allowed Pass/Fail. *<http://www.catalog.gatech.edu/genregulations/passfail.php>
- (9) 6 hours Humanities electives required: <http://www.catalog.gatech.edu/students/ugrad/core/corec.php>
- (10) Engineering & Business Minors must take MGT 3150 or MGT 4015. Credit not given For ACCT 2101 and MGT 3000. Do not take ACCT 2101 if you are in this Minor.
- (11) See here for Ethics Requirement: <http://www.catalog.gatech.edu/students/ugrad/core/ethics.php>
- (12) See here for Global Perspective requirement: <http://www.catalog.gatech.edu/students/ugrad/core/gp.php>
- (13) See here for Environmental Elective: <http://www.isye.gatech.edu/academics/undergraduate/courses>
- (14) Board of Regents Requirement: Choose one: HIST 2111, HIST 2112, POL 1101, INTA 1200 or PUBP 3000. Credit is not given for both POL 1101 & INTA 1200. Must be taken letter grade.
Updated Jan 2014

Concentration Name	Concentration DEPTH classes	Concentration BREADTH classes
(A) Supply Chain Engineering	A1. 3103 Logistics A2. 3104 Manufacturing A3. One of: a. 4111 Adv Logistics* b. 4803 Adv Manufacturing*	Three courses take from the [DEPTH] of at least two concentrations (B), (C), and (D)
(B) Quality and Statistics	B1. 3039 Quality Control B2. 4031 Regression & Forecasting B3. One of: a. CS 4641 Machine Learning b. Math 4262	Three courses take from the [DEPTH] of at least two concentrations (A), (C), and (D)
(C) Economic and Financial Systems	C1. 4301 Supply Chain Economics C2. 4311 Capital Investment Analysis C3. One of: a. Econ 3150 Econ & Fin Mod b. Mgt 3078 Fin & Investments c. Econ 4340 Industrial Organization d. Econ 4350 Intl Econ	Three courses take from the [DEPTH] of at least two concentrations (A), (B), and (D)
(D) Operations Research	D1. 4133 Adv Optimization* D2. 4803 Adv Simulation** D3. 4232 Adv Stochastics*	Three courses take from the [DEPTH] of at least two concentrations (A), (B), and (C)
(E) General ISyE	One of: a. 4111 Adv Logistics* b. 4803 Adv Manuf/ Adv Simul.* c. 4311 Capital Investment Analysis* d. 4133 Adv Optimization* e. 4232 Adv Stochastics*	E1. 3103 Logistics E2. 3104 Manufacturing E3. 3039 Quality Control E4. 4031 Reg & Forecast* E5. 4301 Supply Chain Economics

<u>ISyE Required Courses</u> <u>(all concentrations)</u> ISyE 2027 Probability ISyE 2028 Statistics ISyE 3025 Eng Economy ISyE 3044 Simulation ISyE 3133 Eng Optimization ISyE 3232 Stoch Mfg & Svc Sys ISyE 4106 Senior Design ISyE 4800 Senior Design Prep

*** Graduate Course Option: Please see: <http://www.catalog.gatech.edu/students/ugrad/degrees/gradcourse.php>**

Undergraduate students taking graduate-level courses and NOT applying course(s) toward Masters must have a cumulative GPA of 3.0. Allowable substitutions are: ISyE 6203 for Advanced Logistics, ISyE 6201 or ISyE 6202 for Advanced Manufacturing, ISyE 6669 for Advanced Optimization, ISyE 6644 for Advanced Simulation, ISyE 6650 for Advanced Stochastics, ISyE 6225 for Advanced EDA, and ISyE 6414 for Regression and Forecasting. Math 3012 Applied Combinatorics as the third OR Concentration depth class. The Associate Chair for Undergraduate Programs may allow additional substitutions as appropriate.

ISyE 4009 Human-Integrated system may be used as an Breadth Elective in any concentration. We do not offer the course but students can take the course elsewhere to transfer back.