

Industrial Operations Engineering Sample Schedule

	Total Credit Hours	Term:							
		1	2	3	4	5	6	7	8
Subjects required by all programs (55 hours)									
Mathematics 115, 116, 215, and 214	16	4	4	4	4	-	-	-	-
Engr 100, Intro to Engr	4	4	-	-	-	-	-	-	-
Engr 101, Intro to Computers	4	-	4	-	-	-	-	-	-
Chemistry 125/126 and 130 or Chemistry 210 and 211 ¹	5	5	-	-	-	-	-	-	-
Physics 140 with Lab 141; Physics 240 with Lab 241 ²	10	-	5	5	-	-	-	-	-
Intellectual Breadth	16	4	4	4	-	-	4	-	-
Related Engineering Subjects (11-12 hours)									
Non-IOE Engineering Courses (11-12 hours) ³	12	-	-	-	4	4	-	-	4
Required Program Subjects (34)									
IOE 201, Industrial, Operations Modeling	2	-	-	2	-	-	-	-	-
IOE 202, Operations Modeling	2	-	-	2	-	-	-	-	-
IOE 265, Engr Probability and Statistics	3	-	-	-	3	-	-	-	-
IOE 310, Intro to Optim Methods	3	-	-	-	-	3	-	-	-
IOE 333, Ergonomics	3	-	-	-	3	-	-	-	-
IOE 334, Ergonomics Lab	1	-	-	-	1	-	-	-	-
IOE 316, Intro to Markov Processes	3	-	-	-	-	3	-	-	-
IOE 366, Linear Statistical Models	3	-	-	-	-	3	-	-	-
IOE 373, Data Processing	4	-	-	-	-	-	4	-	-
IOE 474, Simulation	4	-	-	-	-	-	-	4	-
IOE Senior Design Course IOE 424, 481, 499 ⁴	4	-	-	-	-	-	-	-	4
TC 380, Technical Communication in IOE	2	-	-	-	-	-	2	-	-
Technical Electives (18) ⁵	18	-	-	-	-	3	6	6	3
General Electives (9-12 hours)	9-12	-	-	-	-	-	-	6	3
Total	128	17	17	17	15	16	16	16	14

Revised: April-18

Candidates for the Bachelor of Science in Engineering in Industrial and Operations Engineering - B.S.E. in I.O.E. - must complete the program listed above. This sample schedule is an example of one leading to graduation in eight terms.

Notes:

¹If you have a satisfactory score or grade in Chemistry AP, A-Level, IB Exams or transfer credit from another institution for Chemistry 130/125/126 you will have met the Chemistry Core Requirement for CoE.

²If you have a satisfactory score or grade in Physics AP, A-Level, IB Exams or transfer credit from another institution for Physics 140/141 and 240/241 you will have met the Physics Core Requirement for CoE.

³Non-IOE Engineering Courses - Select 11-12 hours; one course from any three different groups:

- MECHENG 211 or CEE 211 or MECHENG 240
- MECHENG 235 or CHE 230
- MATSCIE 220 or MECHENG 382
- BIOMEDE 458 or EECS 270 or EECS 314
- CEE 265 or NERS 211
- EECS 280

⁴IOE Senior Design courses are restricted to IOE undergraduate students only.

⁵Technical Electives - Select 12 hours from the following four groups; at least one course each from three of the following four groups:

- A. IOE 410, 412, 413, 419, 440, 441, 447, 449
- B. IOE 416, 460, 461*, 465*, 466*
- C. IOE 430, 432, 434, 436, 437, 438, 463
- D. IOE 421, 422, 425, 430, 452, 453

The remaining 6 hours may be selected from any 400-level IOE courses (except IOE 490, IOE 499, IOE 424, and IOE 481) and/or from the approved list of non-IOE courses.

*Maximum of 6 hours allowed from IOE 461, 465, 466.

**Consult IOE academic advisor for requirements based on term of admission.