

Baskin School of Engineering Undergraduate Programs Course Prerequisite List

AMS	APPLIED MATH & STATISTICS COURSES
3	Score of 20 or higher on MATH Placement Exam or MATH 2.
11A	AMS 3 or MATH 3 or Math placement exam score of 31 or higher
11B	AMS 11A or ECON 11A
27/L	MATH 19B or 22 or 23A or 26 or permission of instructor.
ENGR 50	PHYS 5B/M or 6B/M
113	AMS 11B or ECON 11B or MATH 19B or MATH 11B
131	AMS 11B or ECON 11B or MATH 19B or MATH 11B
147	AMS 27 or Math 21
162	AMS 5 or 7 or 113 or 131 or CMPE 107 or permission of instructor
206	Graduate standing or permission of instructor
256	AMS 131 or CMPE 107 or permission of instructor
274	AMS 131 or CMPE 107 or permission of instructor. Students cannot receive credit for this course and course 174
BME	BIOMOLECULAR ENGINEERING COURSES
60/L	BIOL 20A or 21A
102	BIOL 20A or 21A or BME/BIOL 80H
109	CMPS 12B/M or 13H/L, CMPE 16 or 16H, MATH 19A
110	BIOL 100 or BIOC 100A
130	BIOL 105 and BIOL 100 or BIOC 100A or permission of instructor
160/L	BIO 20A or BIO 21A
205	CMPS 12B or 13H, CMPE 107 or AMS 131, BIOL 20A or 21A. Corequisite: BIOC 100A
220/L	BME 205, CMPS 101, BIOC 100A
230/L	BME 205, CMPS 101, BIOC 100A
CMPE	COMPUTER ENGINEERING COURSES
1	Enrollment restricted to first-year students; interested sophomores may contact faculty for permission number.
12/L	Course 3 or CMPS 10, 12A, 60G or 60N, or BME 60, or suitable programming experience
16	Eligibility to enroll in MATH 19A (complete MATH 3 or MATH Placement Exam score of 40 or higher) or complete MATH 19A or 11A.
100/L	CMPE 12/L
107	CMPE 16 & MATH 22 or 23A.
108	CMPE 107 or AMS 131 & CMPS 101. Knowledge of C language and Unix required.
110	CMPE 12/L, and CMPE 16 or 16H
113	CMPE 110 & CMPS 101
117/L	CMPS 111 or CMPE 121
118/L	EE 70/L & CMPE 12/L or equivalent
121/L	CMPE 12/L, CMPE 100/L & EE 70/L
123A	CMPE 121/L, previous or concurrent enrollment in CMPE 185; permission of instructor
123B	CMPE 123A & CMPE 185
125/L	CMPE 121/L.
126/L	CMPE 121/L & 185; students enrolling concurrently in 185 need to request a permission number.
150	CMPE 12/L & CMPE 16
151	CMPE 150
152	CMPE 107 & CMPE 150
156/L	CMPE 150 & CMPS 111
163/L	CMPE 12/L & CMPE 107
172/L	EE 70/L
173/L	EE 70/L & CE 174 (CMPE 121/L & EE 71/L recommended.)
174	EE 70/L
177	CMPS 101
185	Entry Level Writing and Composition requirements; CMPS 12B or 13H or CMPE 12. Enrollment restricted to School of Engineering majors.
CMPS	COMPUTER SCIENCE COURSES
12A/L	Eligibility to enroll in MATH 19A (MATH 2B or 3 or 40 or higher on math place exam) or MATH 19A or 11A or Econ 11A or AMS 11A.
12B/M	CMPS 12A/L
80M	MATH 19B
101	CMPS 12B or 13H, CMPE 16, MATH 19B, choose one course MATH 21, 22, 23A, 24, or AMS 27. School of Engineering majors only.
102	CMPS 101
104A	CMPS 101 & CMPE 12/L
104B	CMPS 104A
105	CMPS 101 & CMPE 12/L. Enrollment restricted to School of Engineering majors.
109	CMPS 101
111	CMPS 101 & CMPE 110
112	CMPS 104A
115	CMPS 101. Enrollment restricted to CMPE, CMPS and ISM majors
116	CMPS 115
122	CMPS111 or permission of instructor. Enrollment restricted to School of Engineering majors.

128	CMPS 101 or CMPE 150 (CMPS 105 or CMPS 111 recommended.)
129	CMPS 101, CMPS 111 & PHYS 6A or 5A
130	CMPS 101
132	CMPS 130
140	CMPS 101 and one of the following: CMPS 130, CMPE 177, or MATH 115.
146	CMPS 140
160/L	CMPS 101 & MATH 21 or AMS 27.
161/L	CMPS 160/L
180	CMPS 101
181	CMPS 180
183	CMPS 180
190X	MATH 19B & MATH 21 or AMS 27, CMPE 16 or discrete mathematics equivalent; consult with instructor regarding a course equivalent.
EE	ELECTRICAL ENGINEERING COURSES
70/L	PHYS 5C/N or 6C/N, and MATH 24 or AMS 27.
103	EE 70/L
115	Math 23B, AMS 27/L, EE 70/L, EE 135/L, EE 145/L, PHYS 5A, B, C, D
123A	EE 171/L or CMPE 121/L, previous or concurrent enrollment in CMPE 185; permission of instructor
123B	EE 123A & CMPE 185
130/L	PHYS 5B or 6B & PHYS 5C or 6C, Plus Labs
135/L	EE 70/L, MATH 23B or 26 or PHYS 14, and AMS 27.
136	EE 135, SoE or PBSci major or permission of instructor
145/L	PHYS 5B/M, and 5C/N or 6B/M, and 6C/N.
151	EE 70/L, EE 103, & CMPE 107 or probability theory/random variables background, SoE or PBSci major or permission of instructor
153	EE 103, SoE or PBSci major or permission of instructor
154	EE 103, SoE or PBSci major or permission of instructor
171/L	EE 70/L
178	EE 145/L & 171/L. SoE or PBSci major or permission of instructor
ISM	INFORMATION SYSTEMS MANAGEMENT COURSES
58	ISM 50
158	Satisfy Subject A and Composition requirements; ISM 150 or CMPE 150, CMPS 101, ECON 10A and 100A, and Engineering 113 or ECON 113.
105	MATH 11B or 19B or AMS 11B or ECON 11B
125	ISM 105
MATH	MATHEMATICS COURSES
19A	MATH 3 or AMS 3 or score of 40 or higher on Mathematics Placement Exam.
19B	MATH 19A
21	(One quarter of college math recommended)
23A	MATH 19B or 20 B
23B	MATH 23A
24	MATH 22 or 23A. (MATH 21 recommended)
115	MATH 21 or AMS 27, & CMPS 101 or MATH 100
117	MATH 21 or AMS 27, & CMPA 101 or MATH 100
126	MATH 23B, MATH 24 or AMS 27, & CMPS 101 or MATH 100
148/L	MATH 22 or 23A, MATH 21 & 24 or AMS 27, CMPS 101 or MATH 100
BIOL	BIOLOGY COURSES
20A	BIOL 3 or a passing score on the biology placement exam, and CHEM 1B.
BIOC 100A	BIOL 20A & CHEM 108B/M or 112C/N. BINF students may enroll with a grade of B or better in CHEM 108A/L or CHEM 112A/L & 112B/M.
CHEM	CHEMISTRY COURSES
1B/M	CHEM 1A or passing the 1B placement exam, or a prep chem course at another college or university, or a grade of 4 on the AP chem exam..
1C/N	CHEM 1B
108A/L, B/M	CHEM 1C or 4B or a grade of 5 on the AP chemistry examination. Follow previous course in sequence.
112A/L, B/M & C/N	CHEM 1C or 4B or a grade of 5 on the AP chem exam; and CHEM 1N or 4M. Follow previous course in sequence.
ECON	ECONOMICS COURSES
11A	Score of 31 or higher on Math Placement Exam. Students who do not place into precalculus should enroll in Mathematics 1.
11B	ECON 11A or AMS 11A
100A	ECON 1, 2 and 11A or AMS 11A or MATH 11A or 19A; ECON 11B is strongly recommended.
100B	ECON 1, 2, and 11A or AMS 11A or MATH 11A or 19A.
113	ECON 1, 2, and either ECON 11B or MATH 22. ECON 100A or 100B strongly recommended as preparation.
PHYS	PHYSICS COURSES
5A/L or 6A/L	MATH 19A or MATH 20A or MATH 11A
5B/M or 6B/M	PHYS 5A/L and MATH1 9A or 20A; Corequisite: MATH 19B or 20B.
5C/N or 6C/N	PHYS 5A/L or 6A/L & MATH 22 or 23A; Corequisite: MATH 22 or 23A
5D	PHYS 5A/L & MATH 19B or MATH 20B