

## Biosystems Engineering Catalog 2020

Fall 16 hours	<b>Math 141 or 147 (4) FA, SP, SU</b> Prereq- Math ACT 28 or Math SAT 660	<b>EF 151 or 157 (4) FA, SP</b> Coreq- Math 132/141/147 or higher and EF 105 or CS 101 or CS 102	<b>EF 105 (1) FA, SP</b> Coreq- EF 151 or 157	<b>Chem 121 &amp; 123 or 128 (4) FA, SP, SU</b> Prereq-Math 119; recommended background in Math 131	<b>English 101/118 or 198 or 131 (3) FA, SP, SU</b> 101 Regular; 118 Honors 198 Chancellor Honors only; 131 ESL	
Spring 17 hours	<b>Math 142 or 148 (4) FA, SP, SU</b> Prereq- Math 132 or 141 or 147	<b>EF 152 or 158 (4) FA, SP, SU</b> Prereq-EF 151/157 with C or higher Coreq- Math 142 or 148	<b>ME 202 (2) FA, SP, SU</b> Coreq- EF 152 or 158 and Math 142 or 148	<b>Gen Ed (3) FA, SP, SU</b> Cultures & Civilizations	<b>English 102 or 290 or 298 or 132 (3) FA, SP, SU</b> see catalog for prereqs	<b>BSE 104 (1) SP</b> Coreq- EF 151 or 158
Fall 17 hours	<b>Math 241 or 247 (4) FA, SP, SU</b> Prereq- Math 142 or 148	<b>ME 231 (3) FA, SP, SU</b> Prereq- EF 152 or 158 and ME202 with grades of C or better	<b>ME 331 (3) FA, SP, SU</b> Coreq- Math 241 or 247	<b>BSE 201 (1) FA</b>	<b>BSE 221 (3) FA</b> Prereq- Chem 122 & 123 or 128 Coreq- EF 152 or 158	<b>BSE 231 (3) FA</b> Prereq- Chem 122 & 123 or 128 and Math 132 or 141 or 147
Spring 16 hours	<b>Math 231 or 237 (3) FA, SP, SU</b> Prereq- Math 142 or 148	<b>Biology 160 or 168 (3) FA, SP, SU</b> Coreq- Chemistry 120 or 128	<b>ESS 210 (4) FA, SP, SU</b>	<b>ME 321 (3) FA, SP, SU</b> Prereq- ME 202 with C or better and Math 142/148 with C better	<b>BSE 321 (3) SP</b> Prereq- BSE 221	
Fall 17 hours	<b>Philosophy 244 (3) FA, SP</b> Arts & Humanities	<b>AE 341/347 or CE 391 (3) FA, SP, SU</b> Prereq- ME 231 with C or better and Math 241 or 247	<b>ECE 301 (3) FA, SP, M</b> Prereq- Math 231 with C or better	<b>Stats 251 (3) FA, SP, SU</b> or <b>IE 200 (3) FA, SP</b> Prereq- Math 142 or 148	<b>English 360 (3) (WC) FA, SP</b> Prereq- English 102 or 118 Minimum level- junior	<b>Math 200 (2) FA, SP</b>
Spring 16 hours	<b>BSE 411 or 417 (3) SP</b> Prereq- ME 231 and 321 with grades of C or better	<b>BSE 416/418 or CE 495/498 (3) SP</b> Prereq- AE 341/347 with C Prereq- CE 391 for CE choices	<b>BSE 431 or 437 (3) SP</b> Prereq- BSE 321 with grade of C or better	<b>BSE 451 or 457 (4) SP</b> Prereq- ECE 301 with grade of C or better	<b>*Technical Elective (3) FA, SP, SU</b>	
Fall 15 hours	<b>Econ 201/207 (4) FA, SP, SU</b> or <b>Arec 201 (4) SP</b> Social Science	<b>*Technical Elective (3) FA, SP, SU</b>	<b>BSE 400 (2) FA</b> Prereq- Three of BSE 411/417, 416/418 or CE 495,498,431,451 Coreq- BSE 404 and 444	<b>BSE 444 (3) FA</b> Prereq- Three of BSE 411/417, 416/418 or CE 495,498,431,451 Coreq- BSE 400 and 404	<b>BSE 404 (3) (OC) FA</b> Prereq- Three of BSE 411/417, 416/418, or CE 495,498, 431/437, 451/457 Coreq- BSE 400 and 444	
Spring 15 hours	<b>Gen Ed (3) FA, SP, SU</b> Social Science	<b>Gen Ed (3) FA, SP, SU</b> Arts & Humanities	<b>BSE 402 (6) SP</b> Prereq- BSE 400 and 404 and 444	<b>Gen Ed (3) FA, SP, SU</b> Cultures & Civilizations		

**\*Technical Electives-** Note that some electives have required prerequisites. See individual course descriptions for specific information. BSE 525, 543; CBE 481; CSAS 345, 355, 414, 424, 432, 434, 452, 462, 474; CE 381, 430, 485; CHEM 260 or 268, 360 or 368; ENVE 511, 512,513, 515, 516, 525, 526, 527, 530, 532, 533, 544, 558, 561, 574; ESS 334, 434, 442, 444, 454; Geog 411; Geol 485; IE 304; Math 300, 403, 411, 431; ME 363 or 367, 366, 391 or 397, 405, 451, 466.

**BSE Graduation requirements:** a) achieve at least a 2.0 GPA in all BSE courses; b) only one BSE course with a grade of D+, or D may be used toward graduation; c) no BSE course with a grade of D- may be used for graduation; d) achieve at least a 2.0 GPA in the required math courses.

Students also have opportunities for an Honors Concentration. See the Undergraduate Catalog for details and requirements.