

## Biosystems Engineering Catalog 2022

Fall 16 hours	<b>Math 132 or 141 or 147 (3-4) (QR) FA,SP,SU</b>	<b>EF 142 or 151 or 157 (4) (EI) FA, SP</b>	<b>EF 105 (1) FA, SP</b>	<b>Chem 122(3) and 123(1) or 128 (4)(NS) FA, SP, SU</b>	<b>English 101/118 or 198 or 131 (3) FA, SP, SU</b>
	Prereq- Math 141 is ACT Math 28 or SAT Math 660 Prereq-Math 132 is Math 131	Coreq- Math 132/141/147 or higher and EF 105 or CS 101 or CS 102	Coreq- EF 151 or 157	Prereq-Math 119; recommended background in Math 131	101 Regular; 118 Honors 198 Chancellor Honors only; 131 ESL
Spring 17 hours	<b>Math 142 or 148 (4) (QR) FA, SP, SU</b>	<b>EF 152 or 158 (4) (NS and EI) FA, SP, SU</b>	<b>ME 202 (2) FA, SP, SU</b>	<b>Vol Core (3) FA, SP, SU</b>	<b>English 102 or 290 or 298 or 132 (3) FA, SP, SU</b>
	Prereq- Math 132 or 141 or 147	Prereq-EF 142/151/157 with C or higher Coreq- Math 142 or 148	Coreq- EF 152 or 158 and Math 142 or 148	Global Citizenship United States (GCUS)	see catalog for prereqs
Fall 17 hours	<b>Math 241 or 247 (4) FA, SP, SU</b>	<b>ME 231 (3) FA, SP, SU</b>	<b>ME 331 (3) FA, SP, SU</b>	<b>BSE 201 (1) FA</b>	<b>BSE 221 (3) FA</b>
	Prereq- Math 142 or 148	Prereq- EF 152 or 158 and ME202 with grades of C or better	Coreq- Math 241 or 247		Prereq- Chem 122 and 123 or 128 Coreq- EF 152 or 158
Spring 16 hours	<b>Math 231 or 237 (3) FA, SP, SU</b>	<b>Biology 160 or 168 (3) (NS) FA, SP, SU</b>	<b>ESS 210 (4) FA, SP, SU</b>	<b>ME 321 (3) FA, SP, SU</b>	<b>BSE 321 (3) SP</b>
	Prereq- Math 142 or 148	Coreq- Chemistry 122 and 123 or 128		Prereq- ME 202 with C or better and Math 142/148 with C better	Prereq- BSE 221
Fall 17 hours	<b>Philosophy 244 (3) FA, SP</b>	<b>BSE 326 (3) FA, SP</b>	<b>BSE 351 (3) FA, SP</b>	<b>Stats 251 (3) FA, SP, SU</b>	<b>English 360 (3) (WC) FA, SP</b>
	Vol Core- Arts & Humanities	Prereq- EF 152 or 158 and Math 241 or 247	Prereq- EF 152 or 158	Prereq- Math 142 or 148 or <b>IE 200 (3) FA, SP</b>	Prereq- English 102 or 118 Minimum level- junior
Spring 16 hours	<b>BSE 411 or 417 (3) SP</b>	<b>BSE 426 or 427 (3) SP</b>	<b>BSE 431 or 437 (3) SP</b>	<b>BSE 451 or 457 (4) SP</b>	<b>*Technical Elective (3) FA, SP, SU</b>
	Prereq- ME 231 and 321 with grades of C or better	Prereq-BSE 326 with grade of C or better	Prereq- BSE 321 with grade of C or better	Prereq- BSE 351 grade of C or better and Math 231 or 237	
Fall 14 hours	<b>Vol Core (3) FA, SP, SU</b>	<b>*Technical Elective (3) FA, SP, SU</b>	<b>BSE 400 (2) FA</b>	<b>BSE 444 (3) FA</b>	<b>BSE 404 (3) (OC) FA</b>
	Social Science (SS)		Prereq- Three of BSE 411/417, BSE 426/427, 431/437, or 451/457 Coreq- BSE 404 and 444	Prereq- Three of BSE 411/417, BSE 426/427, 431/437, or 451/457 Coreq- BSE 400 and 404	Prereq- Three of BSE 411/417, 426/427 BSE 431-437, or 451/457 Coreq- BSE 400 and 444
Spring 15 hours	<b>Vol Core (3) FA, SP, SU</b>	<b>Vol Core (3) FA, SP, SU</b>	<b>Vol Core (3) FA, SP, SU</b>	<b>BSE 402 (5) (EI) SP</b>	<b>BSE 403 (1) (AOC) SP</b>
	Expanded Perspectives- choose from AH, AAH, GCUS, GCI, or SS	Global Citizenship International (GCI)	Expanded Perspectives- choose from AH, AAH, GCUS, GCI, or SS	Prereq- BSE 400 and 404 and 444 Co-reg- BSE 403	Prereq- BSE 400 and 404 and 444 Co-reg BSE 402

**\*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 312; Geol 485; IE 304; Math 300, 403, 411, 431; ME 363 or 367, 366, 391 or 397, 405, 451, 466, 472.

**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.

Volunteer Core courses highlighted in light orange.