

ACADEMIC PLAN

BSME Academic Advising Plan - Provide inputs under "Sem" and "Year" for each course.

For Gen Ed 2023

Sem: SP=spring; FA=fall; SUM=summer; TR=transfer

Enter a semester and year to highlight cells below in the Term column beside courses in the semester of interest.

Sem	Year	Term of highlighted semester:
FA	2023	2023.8

0 Number of credits your plan indicates that you have completed or will complete this semester.

no Is your plan complete?

no Does your plan follow all prerequisites and corequisites?

yes Does your plan comply with the limits of credits allowed for each semester?

Percent completion:

Name: _____ Student ID: _____

First Year

Pre- or Co-Requisites	Course	Sem	Year	Credits	Term
MATH 1241	ENGR 1201 Intro to Engr I			2	0.6
Complete MEGR 1100 or CHEM 1251&1251L. Enter the term for whichever course was completed.	CHEM 1251 Chemistry I			0	0.6
	CHEM 1251L Chemistry Lab			0	0.6
	MEGR 1100 Fund Sci and Math			0	0.6
MATH 1103 OR PLACEMENT	MATH 1241 Calculus I			3	0.6
CHECK CATALOG	SCIENCE ELECTIVE			3	0.6
	XXXX Global Social Science 1501			3	0.6

Pre- or Co-Requisites	Course	Sem	Year	Credits	Term
ENGR 1201 MATH 1241	ENGR 1202 Intro to Engr II			2	0.6
MATH 1241	PHYS 2101 Physics I			3	0.6
PHYS 2101	PHYS 2101L Physics I Lab			1	0.6
MATH 1241	MATH 1242 Calculus II			3	0.6
	WRDS 1103 Writing & Inquiry			3	0.6
	XXXX 1502 Global Arts/Humanities			3	0.6

Second/Sophomore Year

Pre- or Co-Requisites	Course	Sem	Year	Credits	Term
PHYS 2101 MATH 1242	PHYS 2102 Physics II			3	0.6
PHYS 2102	PHYS 2102L Physics II Lab			1	0.6
PHYS 2101 MATH 1242	MEGR 2141 Engr Mechanics I			3	0.5
MATH 1242	MATH 2171 Diff Equations			3	0.6
	XXXX 1511 Local Social Science			3	0.6
WRDS 110x	CTCM 2530 Critical Thinking and Communication			3	0.6
ADMISSION TO MOTORSPORTS	MEGR 2299 Intro to Motorsports Eng			1	0.6
ADMISSION TO BIOMEDICAL	MEGR 2279 Intro to Biomedical Eng			1	0.6

Pre- or Co-Requisites	Course	Sem	Year	Credits	Term
MEGR 2156	MEGR 2180 Manuf. Systems			3	0.6
ENGR 1202 MEGR 2141 PHYS 2102L	MEGR 2180 Design Proj. Lab			2	0.6
ENGR 1201 ENGR 1202 PHYS 2102 MEGR 2141	MEGR 2156 Solid Mechanics			3	0.6
MEGR 2141	MEGR 2144 Calculus III			3	0.6
MATH 1242	MATH 2241 Basic Elect. Engr			3	0.6
PHYS 2102	ECGR 2161 Computational Methods			3	0.6
MEGR 2240 may be taken in the summer after the 4th semester or moved to the 5th semester.	MEGR 2141 MEGR 2240			1	0.6
ADMISSION TO ENERGY	MEGR 2499 Intro to Energy Eng			1	0.6
ADMISSION TO PRECISION	MEGR 2899 Intro to Precision Eng and Metrology			1	0.6

Third/Junior Year

Pre- or Co-Requisites	Course	Sem	Year	Credits	Term
MATH 2171 PHYS 2101	MEGR 3111 Thermodynamics I			3	0.6
MEGR 2141 MATH 1242	MEGR 3121 Dynamic Systems I			3	0.6
CHEM 1251 or MEGR 1100	MATH 2171			3	0.6
MEGR 2144	MEGR 3161 Engr Materials			3	0.6
ECGR 2161	MEGR 3171 Meas. & Instrum.			2	0.6
MATH 2241	MEGR 3171L Instrum. Lab			2	0.6
PHYS 2102L MEGR 3171	MEGR 3171L			2	0.6
CHECK CATALOG	ME Technical Elective or Motorsports/Energy/Biomed/Precision			3	0.6

Pre- or Co-Requisites	Course	Sem	Year	Credits	Term
MEGR 3111	MEGR 3112 Thermodynamics II			3	0.6
MEGR 3121 MEGR 2240	MATH 2171			3	0.6
MEGR 3121 MATH 2241	MEGR 3114 Fluid Mechanics			3	0.6
ECGR 2161 MEGR 2144 MEGR 2156 MEGR 2180	MEGR 3156 Design Proj. Lab II			2	0.6
MEGR 2144 MEGR 3161 MEGR 3171L MEGR 3121	MEGR 3152 Mechs & Materials Lab			2	0.6
MEGR 3116 may be taken in the summer after the 6th semester or moved to the 7th semester.	MATH 2171 MEGR 3111 MEGR 3114			3	0.6

Senior Year

Pre- or Co-Requisites	Course	Sem	Year	Credits	Term
MEGR 3111 MEGR 3161 MEGR 3114 MEGR 3156 MEGR 3171L MEGR 3152 MEGR 3251	MEGR 3255 Senior Design I			2	0.6
MEGR 2299 MEGR 3355 MEGR 3455 MEGR 2279 MEGR 2289	Motorsports Sr Des I Energy Sr Des I Biomed Sr Des I Precision Sr Des I			2	0.6
MEGR 3111 MEGR 3171L MEGR 3114	MEGR 3251 Thermal/Fluids Lab			2	0.6
	MATH ELECTIVE			3	0.6
CHECK CATALOG	ME Technical Elective or Motorsports/Energy/Biomed/Precision			3	0.6
CHECK CATALOG	DESIGN ELECTIVE MEGR 3221			3	0.6

Pre- or Co-Requisites	Course	Sem	Year	Credits	Term
MEGR 3255 MEGR 3355 MEGR 3455 MEGR 3275 MEGR 3285	MEGR 3256 Senior Design II			2	0.6
MEGR 3355 MEGR 3456 MEGR 3275 MEGR 3286	Motorsports Sr Des II Energy Sr Des II Biomed Sr Des II Precision Sr Des II			2	0.6
CHECK CATALOG	ME Technical Elective or Motorsports/Energy/Biomed/Precision			3	0.6
CHECK CATALOG	ME Technical Elective or Motorsports/Energy/Biomed/Precision			3	0.6
	XXXX 1512 Local Arts/Humanities			3	0.6
SENIOR OR JUNIOR STANDING	ENGR 3295 Prof. Development			1	0.6

Pre-Requirement - C or Better Required

Co-Requirement

Prerequisite or Co-requisite

Pre-Requirement - D or Better Required

** MEGR 3114 (Fluid Mechanics) - Pre-requisite OR Co-requisite to MEGR 3116 (Heat Transfer) - C or Better Required

** MEGR 3152 (Mechanics & Materials Lab) - Pre-requisite OR Co-requisite to MEGR 3255 Senior Design I, 3355 - Motorsports Senior Design I, 3455 - Energy Senior Design I, and 3275 - Bioengineering Senior Design I

** MEGR 3251 (Thermal/Fluids Lab) - Pre-requisite OR Co-requisite to MEGR 3255 Senior Design I, 3355 - Motorsports Senior Design I, 3455 - Energy Senior Design I, and 3275 - Bioengineering Senior Design I

Senior Design I requires: MEGR 3152 and MEGR 3251 as pre-/co-requisites And these courses completed with a C or better: MEGR 3111, MEGR 3114, MEGR 3156, MEGR 3161, and MEGR 3171L

A C or better in MEGR 2141 is required for: MEGR 2144, MEGR 2156, MEGR 2180 and MEGR 3121; MEGR 2240 requires passing MEGR 2141.

A C or better in MEGR 3121 is required for: MEGR 3114, 3116, 3122, and 3152.