

Mechanical Engineering Collaborative Program

2022-2023 Undergraduate Catalog

Semester 1 - Fall				
[†] Gateway	Credits	Major	Other	GEP
ENES 100 – Intro to Engineering Design	3	TF		
ENGL 101 – First-Year Composition	3			CS1
MATH 236 – Calculus I	4	X		CS3
PHYS 261 [†] – Physics I	4	X		C
ORIE 101 – Intro to Higher Education	1		X	
Semester Total	15			

Semester 2 - Spring				
**Spring Only [†] Gateway	Credits	Major	Other	GEP
CHEM 201 – General Chemistry I	4	X		C
ENES 102** - Statics	3	X		
MATH 237 [†] – Calculus II	4	X		
PHYS 262 – Physics II	4	X		
Semester Total	15			

Semester 3 - Fall				
*Fall Only [†] Gateway (CHEM 202 alternate)	Credits	Major	Other	GEP
CHEM 133 [†] * – Chemistry for Engineers	3	X		
ENES 221* - Dynamics	3	X		
ENME 272* - Intro to C.A.D	2	X		
MATH 238 – Calculus III	4	X		
PHYS 263 – Physics III	4	X		
Semester Total	16			

Semester 4 - Spring				
**Spring Only	Credits	Major	Other	GEP
ENME 232** Thermodynamics	3	X		
ENME 271** - Numerical Methods	3	X		
IDIS 150 – First-Year FSU Colloquia	3			E
MATH 432 – Differential Equations	3	X		
GEP Social Science	3			D
Semester Total	15			

Semester 5 – Fall				
*Fall Only	Credits	Major	Other	GEP
ENES 220* -- Mechanics of Materials	3	X		
ENME 331* - Fluid Mechanics	3	X		
ENME 350* - Electronics & Instrument I	3	X		
ENME 392* - Statistical Methods	3	X		
GEP Humanities	3			B
GEP Social Sciences	3			D
Semester Total	18			

Semester 6 - Spring				
**Spring Only	Credits	Major	Other	GEP
ENME 351** - Electro. & Instruments II	3	X		
ENME 361** - Vib., Contr., & Opt. I	3	X		
ENME 382** - Materials & Mfg.	3	X		
ENGL 338 or ENGL 339	3			CS2
GEP Humanities	3			B
ENME 400-level Elective (1 of 3)	3	X		
Semester Total	18			

Semester 7 - Fall				
*Fall Only	Credits	Major	Other	GEP
ENME 371* - Engineering & Mfg.	3	X		
ENME 400* - Machine Design	3	X		
ENME 462* - Vib., Contr., & Opt. II	3	X		
GEP FSU Colloquia II	3			E
ENME 400-level Elective (2 of 3)	3	X		
ENME 400-level Elective (3 of 3)	3	X		
Semester Total	18			

Semester 8 - Spring				
**Spring Only	Credits	Major	Other	GEP
ENME 332** - Transfer Processes	3	X		
ENME 472** - Product & Process Dev.	3	X		
Non-ME Technical Elective (1 of 2)	3	X		
Non-ME Technical Elective (2 of 2)	3	X		
GEP Fine & Performing Arts	3			A
GEP Identity & Difference	3			F
Semester Total	18			

Total Credits: 133

Mechanical Engineering Collaborative Program

2023-2024 Undergraduate Catalog

Semester 1 - Fall				
[†] Gateway	Credits	Major	Other	GEP
ENES 100 – Intro to Engineering Design	3	TF		
ENGL 101 – First-Year Composition	3			CS1
MATH 236 – Calculus I	4	X		CS3
PHYS 261 [†] – Physics I	4	X		C
ORIE 101 – Intro to Higher Education	1		X	
Semester Total	15			

Semester 2 - Spring				
**Spring Only [†] Gateway	Credits	Major	Other	GEP
CHEM 135 – General Chemistry for Engineers	3	X		C
ENES 102** - Statics	3	X		
MATH 237 [†] – Calculus II	4	X		
PHYS 262 – Physics II	4	X		
Semester Total	14			

Semester 3 - Fall				
*Fall Only [†] Gateway (CHEM 202 alternate)	Credits	Major	Other	GEP
GEP Humanities	3	X		B
ENES 221* - Dynamics	3	X		
ENME 272* - Intro to C.A.D	2	X		
MATH 238 – Calculus III	4	X		
PHYS 263 – Physics III	4	X		
Semester Total	16			

Semester 4 - Spring				
**Spring Only	Credits	Major	Other	GEP
ENME 232** Thermodynamics	3	X		
ENME 271** - Numerical Methods	3	X		
IDIS 150 – First-Year FSU Colloquia	3			E
MATH 432 – Differential Equations	3	X		
GEP Social Science	3			D
Semester Total	15			

Semester 5 – Fall				
*Fall Only	Credits	Major	Other	GEP
ENES 220* -- Mechanics of Materials	3	X		
ENME 331* - Fluid Mechanics	3	X		
ENME 350* - Electronics & Instrument I	3	X		
ENME 392* - Statistical Methods	3	X		
GEP Humanities	3			B
GEP Social Sciences	3			D
Semester Total	18			

Semester 6 - Spring				
**Spring Only	Credits	Major	Other	GEP
ENME 351** - Electro. & Instruments II	3	X		
ENME 361** - Vib., Contr., & Opt. I	3	X		
ENME 382** - Materials & Mfg.	3	X		
ENGL 338 or ENGL 339	3			CS2
ENME 400-level Elective (1 of 3)	3	X		
Semester Total	15			

Semester 7 - Fall				
*Fall Only	Credits	Major	Other	GEP
ENME 371* - Engineering & Mfg.	3	X		
ENME 400* - Machine Design	3	X		
ENME 462* - Vib., Contr., & Opt. II	3	X		
GEP FSU Colloquia II	3			E
ENME 400-level Elective (2 of 3)	3	X		
ENME 400-level Elective (3 of 3)	3	X		
Semester Total	18			

Semester 8 - Spring				
**Spring Only	Credits	Major	Other	GEP
ENME 332** - Transfer Processes	3	X		
ENME 472** - Product & Process Dev.	3	X		
Non-ME Technical Elective (1 of 2)	3	X		
Non-ME Technical Elective (2 of 2)	3	X		
GEP Fine & Performing Arts	3			A
GEP Identity & Difference	3			F
Semester Total	18			

Total Credits: 129