

Engineering – Materials Concentration

2022-2023 Undergraduate Catalog

Semester 1 – Fall				
	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	Credits	Major	Other	GEP
ENES 102** - Statics	3	X		
IDIS 150 – First-Year FSU Colloquia	3			E
MATH 237 – Calculus II	4	X		
PHYS 262 – Physics II	4	X		
GEP Fine & Performing Arts	3			A
Semester Total	17			

Semester 3 – Fall				
*Fall Only	Credits	Major	Other	GEP
CHEM 201 – General Chemistry I	4	X		C
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	17			

Semester 4 - Spring				
**Spring Only	Credits	Major	Other	GEP
ENME 271** - Numerical Methods	3	X		
ENME 232** Thermodynamics	3	X		
MATH 432 – Differential Equations	3	X		
GEP Humanities	3			B
GEP Identity & Difference	3			F
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		
GEP Humanities	3			B
Semester Total	12			

Semester 6 - Spring				
**Spring Only	Credits	Major	Other	GEP
ENME 332** - Transfer Processes	3	X		
ENME 351** - Electro. & Instruments II	3	X		
ENME 382** - Materials & Mfg.	3	X		
ENES 401** - Energy Engineering	3	X		
GEP Social Science	3			D
Semester Total	15			

Semester 7 – Fall				
*Fall Only	Credits	Major	Other	GEP
ENME 405* - Materials Engineering	4	X		
ENME 481* - Project Development	3	X		
ENGL 3xx – Advanced Writing	3			CS2
GEP Social Science	3			D
Engineering Elective (1 of 2)	3	X		
Semester Total	16			

Semester 8 - Spring				
**Spring Only	Credits	Major	Other	GEP
ENME 410** - Capstone Design	3	X		
ENME 425** - Microfabrication	3	X		
GEP FSU Colloquia II	3			E
Engineering Elective (2 of 2)	3	X		
General elective	1		X	
Semester Total	13			

Total Credits: 120

Engineering – Materials Concentration

2023-2024 Undergraduate Catalog

Semester 1 – Fall				
	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	Credits	Major	Other	GEP
ENES 102** - Statics	3	X		
IDIS 150 – First-Year FSU Colloquia	3			E
MATH 237 – Calculus II	4	X		
PHYS 262 – Physics II	4	X		
GEP Fine & Performing Arts	3			A
Semester Total	17			

Semester 3 – Fall				
*Fall Only	Credits	Major	Other	GEP
CHEM 135 – General Chemistry for Engineers	3	X		C
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	17			

Semester 4 - Spring				
**Spring Only	Credits	Major	Other	GEP
ENME 271** - Numerical Methods	3	X		
ENME 232** Thermodynamics	3	X		
MATH 432 – Differential Equations	3	X		
GEP Humanities	3			B
GEP Identity & Difference	3			F
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		
GEP Humanities	3			B
Semester Total	12			

Semester 6 - Spring				
**Spring Only	Credits	Major	Other	GEP
ENME 332** - Transfer Processes	3	X		
ENME 351** - Electro. & Instruments II	3	X		
ENME 382** - Materials & Mfg.	3	X		
ENES 401** - Energy Engineering	3	X		
GEP Social Science	3			D
Semester Total	15			

Semester 7 – Fall				
*Fall Only	Credits	Major	Other	GEP
ENME 405* - Materials Engineering	4	X		
ENME 481* - Project Development	3	X		
ENGL 3xx – Advanced Writing	3			CS2
GEP Social Science	3			D
Engineering Elective (1 of 2)	3	X		
Semester Total	16			

Semester 8 - Spring				
**Spring Only	Credits	Major	Other	GEP
ENME 410** - Capstone Design	3	X		
ENME 425** - Microfabrication	3	X		
GEP FSU Colloquia II	3			E
Engineering Elective (2 of 2)	3	X		
General elective	3		X	
Semester Total	13			

Total Credits: 121

