

BIOMEDICAL ENGINEERING

Recommended course schedule

YEAR	FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
FRESHMAN	Writ 101 – First Year Writing I	3	Writ 102 – First Year Writing II	3
	Humanities	3	Social Science	3
	Math 261 – Calculus I	3	Math 262 - Calculus II	3
	Chem 105/115 – General Chemistry I	4	Chem 106/116 – General Chemistry II	4
	Bisc 160/161 – Biology I	4	Phys 211/221 – Calc-based Physics I	4
	TOTAL CREDIT HOURS	17	TOTAL CREDIT HOURS	17
SOPHOMORE	Math 263 – Calculus III	3	Math 264 – Calculus IV	3
	ENGR 310 – Engineering Analysis I	3	Math 353 – Differential Equations	3
	Phys 212/222 – Calc-based Physics II	4	ENGR 360 – Electric Circuit Theory	3
	BME 200 – Introduction to BME	2	ChE 308 – Energy Balance	2
	ChE 307 – Mass Balance	2	CSCI 251 – Programming for Engineering	3
	BME 222 – Biomaterials	3	ENGR 309 – Statics	3
	TOTAL CREDIT HOURS	17	TOTAL CREDIT HOURS	17
JUNIOR	Chem 221/225 – Organic Chem /Lab	4	ENGR 361 – Circuits Lab	1
	BME 333 – Transport	3	BME 314 – Biomeasures	1
	El E 331 – Linear Systems	3	ME 325 – Dynamics	3
	ENGR 312 – Mechanics of Materials	3	BME 444 – Biomed Controls	3
	BME 313 – BME Physiology	3	Track Elective	3
			Track Elective	3
	TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	14
SENIOR	BME 461 – Senior Design I	2	BME 462 – Senior Design I	2
	BME 301 – Bioinstrumentation	3	Track Elective	3
	BME 311 - Biomechanics	3	BME 413 – Biosignal Processing	3
	Engr 400 – Leadership & Professionalism	1	Econ 310 – Engineering Economy	3
	Social Science	3	Humanities or Fine Arts	3
	Fine Arts	3		
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	14
MINIMUM TOTAL CREDIT HOURS				127



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CHEMICAL ENGINEERING

Recommended course schedule

YEAR	FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
FRESHMAN	Writ 101 – First Year Writing I	3	Writ 102 – First Year Writing II	3
	Chem 105/115 – General Chemistry I	4	Chem 106/116 – General Chemistry II	4
	Math 261 – Calculus I	3	Phys 211/221 – Calc-based Physics I	4
	ChE 101 – Intr. to Chem Engineering	2	Math 262 - Calculus II	3
	Humanities	3	ChE 251 – Programming for Chem Engr.	3
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	17
SOPHOMORE	Math 263 – Calculus III	3	Math 264 – Calculus IV	3
	Chem 221/225 – Organic Chemistry I	4	Math 353 – Differential Equations	3
	ChE 307 – Chemical Engr. Processes I	2	Phys 212/222 – Calc-based Physics II	4
	ENGR 321 – Thermodynamics	3	ENGR 322 – Transport Phenomena	3
	Fine Arts	3	ChE 308 – Chemical Engr. Processes II	2
			Social Science	3
TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	18	
JUNIOR	ChE 421 – Chem. Engineering Thermodynamics	3	ChE 345 – Engineering Economy	3
	ChE 317 – Process Fluid Dynamics	3	ChE 417 – Separation Processes	3
	ChE 431 – Mass & Energy Balance Lab	1	ChE 423 – Chemical Reactor Analysis	3
	ENGR 310 – Engineering Analysis I	3	Engineering Elective	3
	Advanced Science	3	Tech Elective	3
	Humanities	3		
TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	15	
SENIOR	ChE 411 – Chem. Engineering Seminar	1	ChE 433 – Chem. Engineering Design Lab	2
	ChE 412 – Process Control and Safety	3	ChE 452 – Plant Design II	3
	ChE 432 – Unit Operations Lab	1	Engr 313 – Material Science	3
	ChE 451 – Plant Design I	4	Tech Elective	3
	Social Science	3	Tech Elective	3
	Tech Elective	3	Social Science, Humanities or General Education	3
TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	17	
MINIMUM TOTAL CREDIT HOURS				128



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CIVIL ENGINEERING

Recommended course schedule

YEAR	FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
FRESHMAN	Writ 101 - First Year Writing I	3	Writ 102 - First Year Writing II	3
	Chem 105/115 – General Chemistry I	4	Math 262 – Calculus II	3
	Math 261 – Calculus I	3	Phys 211/221 – Calc-based physics I	4
	CE 101– Intro to Civil Engineering I	1	CSCI 251 – Programming for Engineering	3
	Social Science	3	CE 102 – Intro to Civil Engineering II	1
				Humanities
	TOTAL CREDIT HOURS	14	TOTAL CREDIT HOURS	17
SOPHOMORE	Math 263 – Calculus III	3	Math 264 – Calculus IV	3
	Phys 212/222 – Calc-based Physics II	4	Math 353 – Differential Equations	3
	Engr 309 – Statics	3	CE 207 – Surveying	2
	Spch 10X – Speech	3	CE 208 – Civil Engineering Graphics I	1
	Fine Arts	3	CE 310 – Intro to Structural Mechanics	3
			ENGR 312 – Mechanics of Materials	3
		Humanities or Fine Arts	3	
	TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	18
JUNIOR	ENGR 310 – Engineering Analysis I	3	CE 305 – Civil Engineering Lab II	1
	Engr 323 – Fluid Mechanics	3	CE 315 – Civil Engineering Materials	3
	CE 205 – Civil Engineering Lab I	1	CE 413 – Steel Design	3
	CE 311 – Structural Analysis	3	CE 431 – Soil Mechanics I	3
	CE 481 – Transportation Engineering I	3	CE 471 – Environmental Engineering I	3
	CE 412 – Design of Concrete Structures	3	Econ 310 – Engineering Economy	3
	TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	16
SENIOR	CE 401 – Civil Engr. Fundamentals	1	CE 417 – Construction Engineering and Management	3
	CE 405 – Civil Engineering Lab III	1	CE 456 – Civil Engineering Design II	3
	CE 433 – Foundation Engineering	3	Basic Science Elective	3
	CE 455 – Civil Engineering Design I	2	Tech Elective	3
	CE 472 – Water Resources Engr.	3	Tech Elective	3
	Engr 400 – Leadership & Professionalism	1		
	Tech Electives	3		
	Tech Electives	3		
	TOTAL CREDIT HOURS	17	TOTAL CREDIT HOURS	15
MINIMUM TOTAL CREDIT HOURS				129



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COMPUTER ENGINEERING

Recommended course schedule

YEAR	FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
FRESHMAN	Writ 101 - First Year Writing I	3	Writ 102 - First Year Writing II	3
	Chem 105/115 – General Chemistry I	4	Math 262 – Calculus II	3
	Math 261 – Calculus I	3	Phys 211/221 – Calc-based Physics I	4
	EI E 100 – Intro to Electrical Engr.	1	EI E 235/236 – Principles of Digital Systems	4
	CSCI 256 – Programming in Python	3	CSCI 356 – Data Structures in Python	3
	Social Science	3		
	TOTAL CREDIT HOURS	17	TOTAL CREDIT HOURS	17
SOPHOMORE	Math 263 – Calculus III	3	Math 264 – Calculus IV	3
	Phys 212/222 – Calc-based Physics II	4	Math 353 – Differential Equations	3
	ENGR 360 – Electric Circuit Theory	3	ENGR 310 – Engineering Analysis I	3
	EI E 385 – Advanced Digital Systems	3	ENGR 361 – Circuits Lab	1
	EI E 237 – Elec. Engr Tools and Toys	1	EI E 386 – Digital Systems Lab	1
	Humanities	3	Fine Arts	3
			Social Science	3
TOTAL CREDIT HOURS	17	TOTAL CREDIT HOURS	17	
JUNIOR	EI E 351 – Electronics Circuits I	3	EI E 352/353 – Electronics Circuits II	4
	EI E 485/486 – Microprocessor Systems	3	EI E 367 – CAD in Electrical Engineering	3
	EI E 331 – Linear Systems	3	EI E 391 – Random Signals	3
	Math 301 – Discrete Math	3	CSCI 433 – Algor. Data Structures	3
	CSCI 423 – Intro to Operating Systems	3	Cp E 431 – Computer Architecture	3
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	16
SENIOR	Cp E 461 – Senior Design I	1	Cp E 462 – Senior Design II	2
	EI E 425 – Local Area Network	3	Econ 310 – Engineering Economy	3
	Technical Elective	3	Technical Elective	3
	Technical Elective	3	Technical Elective	3
	Technical Elective	3	Humanities	3
TOTAL CREDIT HOURS	13	TOTAL CREDIT HOURS	14	
MINIMUM TOTAL CREDIT HOURS				126



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COMPUTER SCIENCE

Recommended course schedule

YEAR	FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
FRESHMAN	Writ 101 – First Year Writing I	3	Writ 102 - First Year Writing II	3
	CSCI 111 – Computer Science I	3	CSCI 112 – Computer Science II	3
	Math 261 – Calculus I	3	Math 262 – Calculus II	3
	Social Science	3	SPCH 102 or 105 – Public Speaking	3
	Fine Arts	3	Humanities	3
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	15
SOPHOMORE	CSCI 211 – Computer Science III	3	CSCI 223 – Comp. Org. & Assembly	3
	Math 301 – Discrete Math	3	Math 302 – Applied Modern Algebra	3
	Lab Science for Science Majors I & Lab	4	Lab Science for Science Majors II & Lab	4
	Engl 22x – Sophomore Literature	3	Humanities or Fine Arts	3
	Technical Elective	3	Technical Elective	3
	TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	16
JUNIOR	CSCI 300 – Social Responsibility	1	CSCI 387 – Software Design and Dev't.	3
	CSCI 311 – Models of Computation	3	CSCI 433 – Algorithms	3
	CSCI 423 – Operating Systems	3	CSCI 300+ – Computer Science Elective	3
	Math 375 – Statistical Methods	3	Math 263/319 – Calculus III or Linear Algebra	3
	EI E 235/236 – Digital Systems Lab	4	Social Science	3
	Technical Elective	3		
TOTAL CREDIT HOURS	17	TOTAL CREDIT HOURS	15	
SENIOR	CSCI 450 – Programming Lang Org.	3	CSCI 487 – Senior Project	3
	Computer Science Elective	3	CSCI 3xx – Computer Science Elective	3
	Computer Science Elective	3	CSCI 300 – Computer Science Elective	3
	Technical Elective	3	Technical Elective	3
	Technical Elective	3	Science Elective	3
	Science Elective	3		
TOTAL CREDIT HOURS	18	TOTAL CREDIT HOURS	15	
MINIMUM TOTAL CREDIT HOURS				127



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ELECTRICAL ENGINEERING

Recommended course schedule

YEAR	FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
FRESHMAN	Writ 101 – First Year Writing I	3	Writ 102 – First Year Writing II	3
	Chem 105/115 – General Chemistry I	4	Math 262 – Calculus II	3
	Math 261 – Calculus I	3	Phys 211/221 – Calc-based physics I	4
	El E 100 – Intro to Electrical Engr.	1	El E 235/236 – Principles of Digital Systems	4
	CSCI 251 – Programming for Engineering	3	CSCI 259 – Programming in C++	3
	TOTAL CREDIT HOURS	14	TOTAL CREDIT HOURS	17
	SOPHOMORE	Math 263 – Calculus III	3	Math 264 – Calculus IV
Phys 212/222 – Calc-based Physics II		4	Math 353 – Differential Equations	3
ENGR 360 – Electric Circuit Theory		3	ENGR 310 – Engineering Analysis I	3
El E 385 – Advanced Digital Systems		3	ENGR 361 – Circuits Lab	1
El E 237 – Elec. Engr Tools and Toys		1	El E 386 – Digital Systems Lab	1
Fine Arts		3	Econ 310 – Engineering Economy	3
TOTAL CREDIT HOURS		17	TOTAL CREDIT HOURS	17
JUNIOR	El E 351 – Electronics Circuits I	3	El E 341 – Theory of Fields	3
	El E 485/486 – Microprocessor Systems	3	El E 352/353 – Electronics Circuits II	4
	El E 331 – Linear Systems	3	El E 367 – CAD in Electrical Engineering	3
	El E 340 – Elec. Engr Analysis I	3	El E 391 – Random Signals	3
	ENGR 309 – Statics	3	El E 431 – Control Theory	3
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	16
SENIOR	El E 461 – Senior Design I	1	El E 462 – Senior Design II	2
	El E 447 – Modulation, Noise, and Communications	3	Tech Elective	3
	ENGR 321 – Thermodynamics	3	Tech Elective	3
	Social Science	3	Tech Elective	3
	Social Science	3	Tech Elective	2
	Tech Elective	3	Humanities	3
	TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	16
MINIMUM TOTAL CREDIT HOURS				128



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GENERAL ENGINEERING

Recommended course schedule

YEAR	FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
FRESHMAN	Writ 101 - First Year Writing I	3	Writ 102 - First Year Writing II	3
	Chem 105/115 – General Chemistry I	4	Chem 106/116 – General Chemistry II	4
	Math 261 – Calculus I	3	Math 262 - Calculus II	3
	ENGR 100 – Intr. to Engineering	3	CSCI 251 - Programming for Engineering	3
	Humanities	3	Social Science	3
	TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	16
SOPHOMORE	Math 263 – Calculus III	3	Math 264 – Calculus IV	3
	Phys 211/221 – Calc-based Physics	4	Math 353 – Differential Equations	3
	ENGR 309 - Statics	3	Phys 212/222 – Calc-based Physics	4
	Fine Arts	3	ENGR 321 – Thermodynamics	3
	Emphasis Course	3	Emphasis Course	3
	TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	16
JUNIOR	ENGR 313 – Intro to Material Science	3	ENGR 323 – Fluid Mechanics	3
	ENGR 314 – Materials Science Lab	1	ENGR 310 – Engineering Analysis I	3
	ENGR 360 – Electric Circuit Theory	3	ENGR 361 – Electric Circuit Theory Lab	1
	Emphasis Course	3	Emphasis Course	3
	Emphasis Course	3	Emphasis Course	3
	Humanities	3	ENGR Elective (200 or higher)	3
TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	16	
SENIOR	ENGR 330 – Engr. Systems Analysis	3	ENGR 450 – Project Design & Development	3
	ENGR 400 – Leadership & Professionalism	1	Emphasis Course	3
	ECON 310 – Engineering Economy	3	Emphasis Course	3
	MANF 460: Intro to Project Mgmt.	3	ENGR Elective (300 or higher)	3
	Emphasis Course	3	Social Science, Humanities or General Education	3
	ENGR Elective (300 or higher)	3		
	TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	15
MINIMUM TOTAL CREDIT HOURS				127



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GEOLOGICAL ENGINEERING

Recommended course schedule

YEAR	FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
FRESHMAN	Writ 101 - First Year Writing I	3	Writ 102 - First Year Writing II	3
	Chem 105/115 – General Chemistry I	4	Chem 106/116 – General Chemistry II	4
	Math 261 – Calculus I	3	Math 262 – Calculus II	3
	Geol 103 – Earth Dynamics	4	Geol 106 – Earth History	2
			Social Science	3
	TOTAL CREDIT HOURS	14	TOTAL CREDIT HOURS	15
SOPHOMORE	Math 263 – Calculus III	3	Math 264 – Calculus IV	3
	Phys 211/221 – Calc-based Physics I	4	Phys 212/222 – Calc-based Physics II	4
	Geol 225 – Mineralogy & Elementary Petrology	5	Geol 314 – Sedimentology and Stratigraphy	4
	ENGR 309 - Statics	3	ENGR 340 – Engineering Geology	3
			ENGR 312 – Mechanics of Materials	3
			GE 301 – Field Camp I (Summer)	3
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	17+3
JUNIOR	ENGR 310 – Engineering Analysis I	3	Geol 303 – Structural and Tectonic Geology	3
	Geol 305 – Geomorphology	3	GE 405 – Engineering Geophysics	4
	GE 470 – Intro. to Geographic Info System	3	GE 540 – Rock Mechanics	3
	Math 353 – Differential Equations	3	ENGR 323 – Fluid Mechanics	3
	CSCI 251 – Programming for Engineering	3	Engineering Science Elective	3
	Fine Arts	3	GE 401 – Field Camp II (Summer)	3
		TOTAL CREDIT HOURS	18	TOTAL CREDIT HOURS
SENIOR	GE 450 – Hydrogeology	4	GE 421 – Geol. Engr. Design	4
	GE 420 – Subsurface Site Characterization	4	CE 431 – Soil Mechanics	3
	Engineering Science Elective	3	ECON 310 – Engineering Economy	3
	Humanities or Fine Arts	3	GE Tech Elective	3
	Humanities	3	Social Science	3
	TOTAL CREDIT HOURS	17	TOTAL CREDIT HOURS	16
MINIMUM TOTAL CREDIT HOURS				134



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GEOLOGY

Recommended course schedule

YEAR	FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
FRESHMAN	Writ 101 – First Year Writing I	3	Writ 102 – First Year Writing II	3
	Chem 105/115 – General Chemistry I	4	Chem 106/116 – General Chemistry II	4
	Geol 103 – Earth Dynamics	4	Math 261 – Calculus I	3
	Math 125 – Basic Mathematics for Science and Engineering	3	Geol 106 – Earth History	2
			Social Science	3
	TOTAL CREDIT HOURS	14	TOTAL CREDIT HOURS	15
SOPHOMORE	Math 262 – Calculus II	3	Phys 214/224 – Trig-based Physics II	4
	Phys 213/223 – Trig-based Physics I	4	Geol 314 – Sedimentology and Stratigraphy	4
	Geol 225 – Mineralogy & Elementary Petrology	5	Geol 105 – Environmental Geology	3
	Humanities	3	ENGR 340 – Engineering Geology	3
			SPCH 102 or 105 – Public Speaking	3
		GE 301 – Field Camp I (Summer)	3	
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	17+3
JUNIOR	ENGR 310 – Engineering Analysis I	3	ECON 310 – Engineering Economy	3
	Geol 305 – Geomorphology	3	Geol 303 – Structural and Tectonic Geology	3
	Writ 250 – Advanced Composition	3	Fine Arts	3
	Geol 309 – Invertebrate Paleontology	4	Social Science	3
	CSCI 251 – Programming for Engineering	3	Geol/GE Elective	3
			GE 401 – Field Camp II (Summer)	3
	TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	15+3
SENIOR	GE 450 – Hydrogeology	4	Geol/GE Elective	3
	GE 470 – Intro. to Geographic Info System	3	Humanities	3
	GE 420 – Subsurface Site Characterization	4	General Elective 1	3
	Geol 420 or 520 – Optical Mineralogy or Igneous & Metamorphic Petrology	3	General Elective 2	3
	TOTAL CREDIT HOURS	14	TOTAL CREDIT HOURS	12
			MINIMUM TOTAL CREDIT HOURS	124



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MECHANICAL ENGINEERING

Recommended course schedule

YEAR	FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
FRESHMAN	Writ 101 – First Year Writing I	3	Writ 102 – First Year Writing II	3
	Chem 105/115 – General Chemistry I	4	Chem 106/116 – General Chemistry II	4
	Math 261 – Calculus I	3	Math 262 - Calculus II	3
	Humanities	3	ME 101 – Intro to Mechanical Engineering	1
	Social Science	3	Humanities	3
				Social Science
	TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	17
SOPHOMORE	Math 263 – Calculus III	3	Math 264 – Calculus IV	3
	Phys 211/221 – Calc-based Physics	4	Math 353 – Differential Equations	3
	CSCI 251 – Programming for Engineering	3	Phys 212/222 – Calc-based Physics	4
	ME 201 – Engineering Graphics	2	ENGR 309 – Statics	3
	Fine Arts	3	ENGR 321 – Thermodynamics	3
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	16
JUNIOR	Engr 310 – Engineering Analysis I	3	ENGR 323 – Fluid Mechanics	3
	Engr 312 – Mechanics of Materials	3	ME 324 – Intro. to Mechanical Design	3
	ENGR 313/314 – Materials Science	4	ME 325 – Intermediate Dynamics	3
	ENGR 330 – Engineering Systems Analysis	3	ENGR 361 – Electric Circuit Theory Lab	1
	Engr 360 – Electric Circuit Theory	3	ENGR 420 – Engineering Analysis III	3
			ECON 310 – Engineering Economy	3
	TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	16
SENIOR	ME 401 – Thermo-Fluid Dynamics	3	ME 402 – Propulsion	3
	ME 416 – Structures & Dynamics Lab	1	ME 419 – Energy and Fluids Lab	1
	ME 426 – Kinematics	3	ME 428 – Dynamics of Machinery	3
	Thermal/Fluid Elective	3	ME 438 – Senior Design	3
	Design Elective	3	ENGR 553 – Heat Transfer	3
	Social Science	3	Engineering Elective	3
	TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	16
MINIMUM TOTAL CREDIT HOURS				128



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