Engineering Management

2023-2024 Bachelor of Science Requirements – minimum 130 Credit Hours

Freshman Year

Fall Semester Credits				redits
XXXX 193 First Year Seminar ¹	3		Calculus & Analytical Geometr	y II 4
CHEM 101 General Chemistry I	3	PHYS 121	Physics I	4
CHEM 101L General Chemistry I Lab	1	PHYS 121	Physics I Lab	1
MATH 157 Calculus & Analytical Geometry I 4		PHIL 201	Human Nature 3 _	
PHIL 101 Reasoning	3	ENGL 101	Writing (WE)	3
COMM 100 Communication & Speech 3		RELI xxx	Christianity & Catholic Traditions ¹ 3	
Total Credits	17		Total Credits	18
	Sophon	nore Year		
Fall Semester	Credits	Spring Sen	mester C	redits
MENG 221 Materials Engineering	3	ENSC 301	Mechanics of Materials	3
ENSC 205 Statics	3	MATH 260	Ordinary Differential Equation	ıs 3
MATH 259 Calculus & Analytical Geometry III 4		MATH 321	Statistics for Experimentalists 3	
PHYS 122 Physics II	4	RELI xxx	World/Comparative Religion (GS) ¹ 3
PHYS 122L Physics II Lab	1	PHIL 301	Ethics or RELI Ethics1	3
ECON 200 Economic Analysis ²	3		Total Credits	15
Total Credits	18			
	lunio	or Year		
Fall Semester Credits Spring Semester Credits				
XXXX 1 st Pathways Course ³	3	XXXX 2 nd	Pathways Course ³	3
CPSC xxx Approved Computing Cou		XXXX 3 rd	Pathways Course ³	3
ENGM 310 Systems Engineering Management 3		ENSC 244	Computer Methods for Engineers 3	
EENG 201 Circuit Analysis I 3		XXXX Business for Engineering Tech Elective ³ 3		
EENG 201 Circuit Analysis I Lab	1	BFIN 320	Principles of Finance	3
ACCT 263 Accounting Analysis	3	BUSN 283	Business Law	3
Total Credits	16	D0311 203	Total Credits	18
		or Year		
Fall Semester Credits		Spring Semester Credits		redits
ENSC 491 Senior Design Project I	2	ENSC 492	Senior Design Project II (WE, FA) 3
XXXX 4 th Pathways Course ³	3	XXXX 6 th	Pathways Course ³	3
XXXX 5 th Pathways Course ³	3	XXXX 7 th	Pathways Course (if required) ³	3
ENGM 405 Engineering Project Management 3		ENSC 355	Thermal Science (spring odd year	rs) 3
XXXX1 st Broadening CORE Require		ENSC 400	Fundamentals of Eng Exam	0
Total Credits	14	XXXX 432	CORE Integration Seminar ¹	3
			Total Credits	15

¹ Refer to Gonzaga CORE requirements for options.

² ECON 200 counts as a Social/Behavioral Sciences course. Select one additional broadening course from History or Literature.

³ See back for guidelines on Pathways and Business for Engineering Technologies Electives.

Engineering Management Pathways

Pathways must meet the following requirements:

- Each pathway must include at least three engineering 4xx courses or computer science (CPSC) 3xx/4xx courses.
- Each course or course/lab combination must count for at least 3 credits.
- The total credit count of all pathway courses must add up to at least 20 credits.

Pathways with multiple 4-credit courses or course/lab combinations will not require a 7th course.

This Degree Worksheet is a general guide based on 3-credit pathway courses.

Please plan ahead, keeping each semester's credit load in mind.

Minor in Business for Engineering Technologies Electives

Choose one in the spring of even years:

- BENT 490 Creativity, Innovation, and Entrepreneurship
- ECON 324 Economics of Environmental Protection
- MGMT 350 Principles of Management
- MKTG 310 Principles of Marketing
- OPER 340 Operations Management

Approved Computing Course

Choose one from the following options. Additional courses may be offered; please see your advisor.

- CPSC 121 Computer Science I
- CPSC 214 Intro to Programming with Python
- CPSC 222 Introduction to Data Science