B.S. in Energy Systems Engineering

OSU-Cascades 2021-2022

	Fall		Winter		Spring		Summer	
First Year	ENGR 100: The OSU Engineering Student CH 201: Gen. Chemistry for Engineering Majors MTH 251: Differential Calculus WR 121: English Composition	3 3 4 3	ENGR 102: Design Engineering & Problem Sovling CH 202: Gen. Chemistry for Engineering Majors MTH 252: Integral Calculus Bacc Core: Social Processes & Institution (ECON 201)	3 3 4 4	ENGR 103: Eng Computation & Algorithmic Thinking CH 205: Lab for CH 202 WR 327: Technical Writing MTH 254: Vector Calculus I COMM 111: Public Speaking	3 1 3 4 3		
	Total Credits	13	Total Credits	14	Total Credits	14		
	Co-Curricular and Academic Opportunities First Year	□ Join the Association of Energy Engineers Club □ Participate in FY campus read and FY experiences □ Check out resources for student wellness, time management and study skills □ Participate in Cascades Adventures trip(s) □ Research Tutor resources						
cond	ENGR 211: Statics ENGR 201: Electrical Fundamentals I MTH 256: Applied Differential Equations PH 211: General Physics with Calculus	3 3 4 4	ENGR 212: Dynamics ENGR 202: Electrical Fundamentals II MTH 341: Linear Algebra I PH 212: General Physics with Calculus Bacc Core: Difference, Power, & Discrimination	3 3 4 3-4	IE 212: Computational Methods for Industrial Engineering ST 314: Intro. to Statistics for Engineers PH 213: General Physics with Calculus Bacc Core: Biological Science Bacc Core: Lifetime Fitness for Health + PAC	4 3 4 4 3		
	Total Credits	14	Total Credits	16- 17	Total Credits	18		
	Co-Curricular and Academic Opportunities Second Year	 □ Apply to MECOP by March 31 □ Continue in Association of Energy Engineers Club □ Connect with Career Development Center for application development for MECOP and other Internships □ Attend campus events (at least 1 per term) □ Research study abroad opportunities and integrate into academic plan □ Think about adding a minor or Sustainability double degree 						

Third Year	IE 425: Industrial Systems Optimization ME 311: Introduction to Thermal- Fluid Sciences ENGR 390: Engineering Economy ESE 330: Modeling & Analysis of Dynamic Systems	4 4 3 4	IE 415: Simulation and Decision Support Systems ME 312: Thermodynamics ESE 360: Energy Consumption Analysis BA 357: Operations Management	4 4 4 4	ESE 470: Energy Distribution Systems ESE 355: Energy Regulation IE 471: Project Management in Engineering Bacc Core: Cultural Diversity	4 4 3 3-4			
	Total Credits	15	Total Credits	16	Total Credits	14- 15			
	Co-Curricular and Academic Opportunities Third Year	 □ Continue to work with Career Development Center on application development and internships □ Participate in Career fairs and events for engineering students both in Corvallis and at OSU-Cascades □ Talk to faculty about internship opportunities if not accepted into MECOP □ Continue in Association of Energy Engineers Club 							
Fourth Year	ESE 497: MIME Capstone Design ME 331: Introductory Fluid Mechanics SUS 350: Sustainable Communities Upper Division Restrictive Elective	4 4 4 4	ESE 498: MIME Capstone Design ME 332: Heat Transfer ESE 430: Feedback Control Systems Bacc Core: Western Culture	4 4 4 3-4	ESE 450: Energy Generation Systems ESE 471: Energy Storage Systems Bacc Core: Literature & Arts Synthesis: Science, Tech. & Society	4 4 3-4 3-4			
	Total Credits	16	Total Credits	15- 16	Total Credits	14- 17			
	Co-Curricular and Academic Opportunities Fourth Year	□ Begin post grad job search, continue connecting with Career Development Center for application development □ Participate in Career fairs and events for engineering students both in Corvallis and at OSU-Cascades □ Continue in Association of Energy Engineers Club □ Plan for Commencement Ceremony and celebrations in June!							

This is a sample schedule intended for informational purposes only. Students should consult with their OSU academic advisor to create a personalized degree plan.