

Bachelor of Science in Engineering

Mechanical Engineering Concentration | 4-Year Sample Sequence

2026-2027 Sample Course Schedule -- This is a recommended schedule and may be altered as needed. Consult your adviser when making changes. See degree audit for Christian Service requirements.

Year 1

Summer

ENGL 101	Critical Thinking in Academic R/W I	3
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Fall

NOND 101	Southern Connections	1
ENGR 152	Intro to Computer Aided Drawing & Modeling	2
MATH 191	Calculus I	4
CHEM 151	General Chemistry I	4
ENGL 102	Critical Thinking in Academic R/W II	3
PEAC 125	Fitness for Collegiate Life	1
Total:		15

Winter

ENGR 123	Introduction to Engineering Design	1
MATH 192	Calculus II	4
MATH 200	Elementary Linear Algebra	2
CPTR 124	Fundamentals of Programming	4
COMM 135	Intro to Public Speaking	3
R-2	Seventh-day Adventist Teachings	3
Total:		17

Year 2

Summer

R-1	Spiritual Development	3
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Fall

MATH 218	Calculus III	4
PHYS 221	Physics for Scientists & Engineers I	4
PHYS 223	Physics for Scientists & Engineers Lab I	1
ENGR 211	Engineering Mechanics: Statics	3
ENGR 220	Introduction to Signal Processing	4
Total:		16

Winter

MATH 315	Differential Equations	3
PHYS 222	Physics for Scientists & Engineers II	4
PHYS 224	Physics for Scientists & Engineers Lab II	1
ENGR 212	Engineering Mechanics: Dynamics	3
ENGR 224	Circuit Analysis	4
ENGR 282	Sophomore Design Lab	1
Total:		16

Year 3

Fall

ENGR 325	Kinematics and Vibrations	2
ENGR 327	Probability and Statistics	3
ENGR 330	Thermodynamics	3
ENGR 341	Mechanics of Materials	3
ENGR 370	Mechatronics	4
Total:		15

Winter

ENGR 344	Material Properties and Processes	3
ENGR 361	Fluid Mechanics	3
ENGR 374	Advanced CAD/MCAE	1
ENGR 385	Robotics, Controls, Automation	4
ENGR 420	Machine Design	3
ENGR 421	Mechanical Design Lab	1
P-1b	PEAC Activity Course	1
Total:		16

Year 4

Fall

ENGR 350	Manufacturing Processes	2
ENGR 440	Heat and Mass Transfer	3
ENGR 441	Thermal Fluids Lab	1
ENGR 461	Engineering Economics, Ethics, and Prof. (W)	3
ENGR 472	Senior Design I	2
R-3	Biblical Studies (W)	3
P-1b	PEAC Activity Course	1
Total:		15

Winter

ENGR 480	Fundamentals of Engineering Exam	0
ENGR 482	Senior Design II	2
CPTC 100	Computer Concepts	1
PEAC 425	Fit for Hire	1
R-4	Biblical Studies (W)	3
IN-6	History	3
IN-8	Human Development	3
IN-10	Aesthetic Analysis	3
Total:		16

(as of March 2026)

Grand Total: 132

Bachelor of Science in Engineering

Mechanical Engineering Concentration | 5-Year Sample Sequence

2026-2027 Sample Course Schedule -- This is a recommended schedule and may be altered as needed. Consult your adviser when making changes. See degree audit for Christian Service requirements.

Year 1

Fall

NOND 101	Southern Connections	1
ENGR 152	Intro to Computer Aided Drawing & Modeling	2
MATH 191	Calculus I	4
CHEM 151	General Chemistry I	4
ENGL 101	Critical Thinking in Academic R/W I	3
Total:		14

Winter

ENGR 123	Introduction to Engineering Design	1
MATH 192	Calculus II	4
R-1	Spiritual Development	3
ENGL 102	Critical Thinking in Academic R/W II	3
PEAC 125	Fitness for Collegiate Life	1
Total:		12

Year 2

Fall

MATH 218	Calculus III	4
ENGR 211	Engineering Mechanics: Statics	3
PHYS 221	Physics for Scientists & Engineers I	4
PHYS 223	Physics for Scientists & Engineers Lab I	1
P 1-b	PEAC Activity Course	1
Total:		13

Winter

MATH 200	Elementary Linear Algebra	2
ENGR 212	Engineering Mechanics: Dynamics	3
PHYS 222	Physics for Scientists & Engineers II	4
PHYS 224	Physics for Scientists & Engineers Lab II	1
CPTR 124	Fundamentals of Programming	4
Total:		14

Year 3

Fall

ENGR 220	Introduction to Signal Processing	4
ENGR 341	Mechanics of Materials	3
COMM 135	Intro to Public Speaking	3
R-2	Seventh-day Adventist Teachings	3
P 1-b	PEAC Activity Course	1
Total:		14

Winter

ENGR 224	Circuit Analysis	4
ENGR 282	Sophomore Design Lab	1
MATH 315	Differential Equations	3
R-3	Biblical Studies (W)	3
ENGR 344	Material Properties and Processes	3
Total:		14

Year 4

Fall

ENGR 325	Kinematics and Vibrations	2
ENGR 327	Probability and Statistics	3
ENGR 330	Thermodynamics	3
ENGR 370	Mechatronics	4
CPT 100	Computer Concepts	1
Total:		13

Winter

ENGR 361	Fluid Mechanics	3
ENGR 374	Advanced CAD/MCAE	1
ENGR 385	Robotics, Controls, Automation	4
ENGR 420	Machine Design	3
ENGR 421	Mechanical Design Lab	1
Total:		12

Year 5

Fall

ENGR 350	Manufacturing Processes	2
ENGR 440	Heat and Mass Transfer	3
ENGR 441	Thermal Fluids Lab	1
ENGR 461	Engineering Economics, Ethics, & Prof. (W)	3
ENGR 472	Senior Design I	2
IN-10	Aesthetic Analysis	3
Total:		14

Winter

ENGR 480	Fundamentals of Engineering Exam	0
ENGR 482	Senior Design II	2
IN-6	History	3
IN-8	Human Development	3
R-4	Biblical Studies (W)	3
PEAC 425	Fit for Hire	1
Total:		12

(as of March 2026)

Grand Total: 132