


Washington State University Vancouver School of Engineering and Computer Science
Bachelor of Science in Mechanical Engineering

Mechanical Engineering Four-Year Plan

Freshman		Sophomore		Junior		Senior	
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
[QUAN] Calculus I Math 171	Calculus II Math 172	Linear Algebra Math 220 C Calculus III Math 273 C	Differential Equations Math 315	Thermodynamics Mech 301	Introduction to Design & Mfg. Mech 310*	Mech. Sys. Des. I Mech 416 [M] Machine Design II Mech 414*	[CAPS] Mech. Sys. Des. II Mech 417
[PSCI] Principles of Chemistry I Chem 105 C	[PSCI] Principles of Chemistry II Chem 106	[PSCI] Physics for Scientist & Engr. I Physics 201 C	[PSCI] Physics for Scientists & Engr. II Physics 202	Fluid Mechanics Mech 303	Machine Design I Mech 314*	Thermal Systems Design Mech 402	Technical Elective Mech 4xx
Engr. Graphics Mech 103	Intro. Mech. Engr. Mech 101	Statics Mech 211 C	Dynamics Mech 212 C	Intro. to Engineering Materials Mech 309 [M]	Dynamic Systems & Control Mech 348*	Technical Elective Mech 4xx	Option Course X.3 Mech 4xx
UCORE [HUM] Humanities		Numerical Comput. Mech 251	Mechanics of Materials Mech 215 C	[WRTG] Tech. Prof. Writing English 402	Heat Transfer Mech 404*	Option Course X.2 Mech 4xx	
UCORE [ROOT] History 105	UCORE [WRTG] English 101	UCORE [SSCI] EconS 101/102	UCORE [BSCI] Biol. Science		Option Course X.1 Mech 4xx		UCORE [ARTS] Creat. & Prof. Arts
							UCORE [DIVR] Diversity
16	13	16	16	15	16	14	15

Credits

1
2
3

C = Req'd for certification & must be "C" grade or better. All upper-division MECH courses must be completed with a minimum 2.0 average GPA. Please refer to the WSU Catalog for all official program requirements.

Shaded lower division courses are required for some subsequent coursework (see catalog descriptions)

Technical elective and option areas (X.1, X.2, X.3, respectively):

Micro/NanoTech:	Mech 431	Mech 438	Mech 450
Design and Mfg:	Mech 485	Mech 476	Mech 489
Mechatronics:	Mech 405	Mech 467	Mech 468
Renewable Energy	Mech 441	ECE 421	(+Two additional)

At least one elective must be a project with realization course, chosen from this list: Mech 405, ECE 421, Mech 441, Mech 442, Mech 450, Mech 468 or Mech 476

***Requires certification as a Mech major**

Mech requirements effective Fall 2018