

Mechanical Engineering, B.S. Name: _____ **SID:** _____ **Advisor:** _____

Transfer school: _____ **Transfer Degree:** _____

_____ ALEKS _____ Writing Placement _____ Writing Portfolio Start sem: _____ Cert. sem: _____ Grad. sem: _____

Fall Semester - Year 1	Grade	Semester	Cr.	Spring Semester - Year 1	Grade	Semester	Cr.
Chem 105 (Math 106 c// or ALEKS 70% or Math 108)			4	Chem 106 (C or better: Chem 105, Math 106, Math 108)			4
Math 171 [QUAN] (ALEKS 80% or Math 106 & Math 108 C or better)			4	Math 172 (Math 171 C or better) (or Math 171)			4
Engl 101 [WRTG] (Writing Placement score 1)			3	UCORE (Refer to UCORE checklist)			3
Math 106 (ALEKS 55%; or Math 101 or Math 103 min: C)			3	UCORE (Refer to UCORE checklist)			3
Math 108 (Math 106: C or better)			2				
Engr 120			2				
History 105 or History 305 [ROOT] (Hist 305 - txfr students)			3				

16 / 17	Summer Semester	14
	Math 172 (Math 171)	4

Fall Semester - Year 2 (Certify after grades posted)	Grade	Semester	Cr.	Spring Semester - Year 2 (Complete Jr. Writing Portfolio)	Grade	Semester	Cr.
CE 211 (Math 172 c//; Phys 201 c//)			3	CE 215 (CE 211 C or better)			3
Computer Programming (CptS 121 or EE 221)			4/2	<i>Txfr. students: Take CE 215 at WSU TC the summer semester before fall classes.</i>			
Econs 101/102 [SSCI] (ALEKS 40% or Math 106, 108 or c//)			3	Math 315 (Math 220 C or better (or c//) and Math 273 C or better)			3
Math 220 (Math 171 c//)			2	ME 212 (CE 211, C or better; Math 172, C or better)			3
Math 273 (Math 172 C or better)			2	Phys 202 (C or better: Phys 201 & Math 172)			4
Phys 201 [PSCI] (Math 171 C or better)			4	UCORE (Refer to UCORE course list)			3

18 / 16	Summer Semester (or between sophomore and junior years)	16
Completion of Writing Portfolio	ME 116 (Math 171 c//) Summer or fall semester	2
	ME 216 (ME 116, C or better; CE 215 c//) Summer or fall semester	2

Fall Semester - Year 3	Grade	Semester	Cr.	Spring Semester - Year 3 (Apply for graduation)	Grade	Semester	Cr.
ME 220 (CE 215 c//)			1	EE 304 /216 (Math 315 min. C or c//; certified in major, + Phys 202 with min C for 216)			2
ME 301 (Phys 201, C or better)			3	ME 304 (ME 301; ME 303; ME certified)			2
ME 303 (ME 212)			3	ME 306 (ME 301, 303; Math/Stat 370 or c//; ME certified)			2
ME 313 (Math 315 or c//; CE 215; Computer Programming)			3	ME 310 (MSE 201; ME certified)			1
MSE 201 (Chem 106; Phys 201 c//)			3	ME 311 (ME 310 c//; ME certified)			3
Math/Stat 370 (Math 172)			3	ME 348 (ME 212, 313; ME certified)			3
				UCORE (Refer to UCORE course list)			3

16	16
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Fall Semester - Year 4	Grade	Semester	Cr.	Spring Semester - Year 4	Grade	Semester	Cr.
ME 316 (CE 215; ME 216 or c//; ME 220 or c//; ME certified)			3	Engl 402 [COMM] [WRTG] (Engl 101; junior standing)			3
ME 401 (ME 348; EE 304; ME certified)			3	ME 406 [M] (Engl 402 or c//; ME 220, 304, 306, 348; ME certified)			3
ME 405 (ME 304; ME certified)			3	ME 416 [T] [CAPS] (ME 304, 348, 415; ME cert; Senior standing)			3
ME 415 [M] (ME 310 or c//; ME 311 or c// ME 316 or c//; ME certified)			3	Technical Elective			3
Technical Elective			3				
				Completion of Fundamentals of Engineering Exam			

This document is for unofficial planning purposes. Refer to the WSU catalog for official information.	UCORE	15	12
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[ROOT], [QUAN], [WRTG], [COMM], [SSCI], [HUM], [ARTS], [BSCI], [PSCI], [DIVR], [CAPS]

UCORE

[ROOT]	History 105 or 305* - Roots of Contemporary Issues (3)
[QUAN]	Math 171 - Calculus I (4)
[WRTG]	Engl 101 - Introduction to Writing (3)
[COMM]	Engl 402 - Technical Writing (3)
[SSCI]	Econ 101 or 102 - Micro or Macro Economics
[HUM]	Inquiry in the Humanities (3)
[ARTS]	Inquiry in the Creative and Professional Arts (3)
[BSCI]	Inquiry in the Natural Sciences (biological science)
[PSCI]	Phys 201 - Physics for Scientists & Engineers (4)
[DIVR]	Diversity (3)
[M]	ME 316 - Engineering Design
[M]	ME 406 - Experiential Design
[CAPS]	ME 416 - Senior Design

AST**

[ROOT]	History 105 or 305* - Roots of Contemporary Issues (3)
[DIVR]	Diversity (3)

* Transfer students only. Refer to Zzsis Academic Requirements report for official information.
** Refer to WSU catalog for official information regarding UCORE requirements.

Junior Writing Portfolio (upon reaching 60 sem. credits; save papers you have written)

Certification Requirements

- Complete 24 semester hours
- C or better in certification courses
- Minimum cumulative gpa: 2.5
- Transfer students may apply during their first semester, but decision will be made after grades are posted for their first semester at WSU.

Certification application deadlines - TBD

Typical Technical Electives

ME 413	Mechanics of Solids (CE 215; MSE 201)
ME 431	Design of Solar Thermal Systems (ME 301; ME 313; ME 404, MIE)
ME 436	Combustion Engines (ME 303)
ME 439	Applied Aerodynamics (ME 303)
ME 461	Introduction to Nuclear Engineering (Math 315; sr. standing; MIE)
ME 481	Control Systems (ME 348)
ME 499	Special Problems - Internship
BE /BIO_ENG 425	Biomechanics (Bio_Eng)

CE 211	Statics (3)
CE 215	Mechanics of Materials (3)
CptS 121	Program Design (4) (or EE 221 - 2 cr.)
Chem 105	Principles of Chemistry I (4)
Chem 106	Principles of Chemistry II (4)
EE 221	Numerical Computing for Engineers (2) (or CptS 121 - 4 cr.)
EE 304	Circuits (3)
Econs 101/102	Micro/Macro Economics (3)
Engl 101	Introduction to Writing (3)
Engl 402	Technical Writing (3)
Engr 120	Innovation in Design (2)
History 105	Roots of Contemporary Issues (or Hist 120 & 121) (3)
Math 101	Intermediate Algebra (3)
Math 106	College Algebra (3)
Math 108	Trigonometry (2)
Math 171	Calculus I (4)
Math 172	Calculus II (4)
Math 220	Linear Algebra (2)
Math 273	Calculus III (2)
Math 315	Differential Equations (3)
Math 370	Statistics (3)
ME 116	Eng. CAD & Visualization (2)
ME 212	Dynamics (3)
ME 216	Integrated CAD Design (2)
ME 220	Materials Lab (1)
ME 301	Fundamentals of Thermodynamics (3)
ME 303	Fluid Dynamics (3)
ME 304	Heat Transfer (3)
ME 306	Thermal and Fluids Lab (2)
ME 310	Manufacturing Process (2)
ME 311	Manufacturing Process Lab (1)
ME 313	Engineering Analysis (3)
ME 316	Mech. Component Analys. & Des (3)
ME 348	Dynamics Systems (3)
ME 401	Mechatronics (3)
ME 405	Thermal Systems Design (3)
ME 406	Experimental Design [M] (3)
ME 415	Engineering Design [M] (3)
ME 416	Mechanical Sys. Design [T], [CAPS] (3)
MSE 201	Materials Science (3)
Phys 201	Physics for Scientists & Engineers I (4)
Phys 202	Physics for Scientists & Engineers II (4)
Tech. Elect.	Approved Technical Elective (refer to current list)
Tech. Elect.	Approved Technical Elective (refer to current list)