

Virginia's Community Colleges & West Virginia University

Associate of Arts and Science in Engineering A.S. leading to
Bachelor of Science in Mechanical Engineering, B.S.M.E.



Material Science AoE
Suggested Plan of Study



Virginia's Community Colleges	Hours	WVU Equivalent	Hours
Year One, 1st Semester			
SDV 100 or SDV 101	1-2	WVUE 191	1-2
ENG 111	3	ENGL 101 (Required)	3
*MTH 263 (Math Course; Must earn C or better)	4	MATH 155 (Required)	4
PHY 241 (Natural Science; Must earn C or better)	4	PHYS 111 & PHYS 111L (Required)	4
Any UCGS Art or Humanities Course	3	Elective	3
TOTAL	15-16	TOTAL	15-16
Year One, 2nd Semester			
ENG 112	3	ENGL 102 (Required)	3
*MTH 264 (Gen Ed)	4	MATH 156 (Required)	4
PHY 242 (Gen Ed)	4	PHYS 112 & PHYS 112L (Required)	4
HIS 111 or HIS 112 or HIS 121 or HIS 122 (History Course)	3	HIST 179 or HIST 180 or HIST 152 or HIST 153	3
EGR 121 (Major Requirement)	2	ENGR 101 (Required)	2
TOTAL	16	TOTAL	16
Summer Session (Online WVU)		ENGR 102 (Required)	3
Year Two, 1st Semester			
MTH 265 (Major Requirement)	4	MATH 251 (Required)	4
EGR 240 (Major Requirement)	3	MAE 241 (Required)	3
CHM 111 (Transfer Elective)	4	CHEM 115 & CHEM 115L (Required)	4
ECO 202 (Social & Behavioral Sciences Elective)	3	ECON 201 (Required)	3
Transfer Elective	4	Elective	4
TOTAL	18	TOTAL	18
Year Two, 2nd Semester			
MTH 267 (Major Requirement)	3	MATH 261 (Required)	3
EGR 245 (Major Requirement)	3	MAE 242 (Required)	3
EGR 246 (Major Requirement)	3	MAE 243 (Required)	3
Any UCGS Art, Humanities, or Literature course (must be from different category than previous course)	3	Elective	3
CHM 112 (Transfer Elective)	4	CHEM 116 & CHEM 116L (AoE)	4
TOTAL	16	TOTAL	16
*Students who need to complete the required prerequisite for MTH 263 should use the "Transfer Elective" slot to complete their math sequence.			

West Virginia University

Year Three, 1 st Semester		Year Three, 2 nd Semester	
EE 221 & EE 221L	4	MAE 331	3
MAE 202 ^(FA only)	1	MAE 342	3
MAE 211 & MAE 211L	3	MAE 353	3
MAE 212L	1	MSEN 350	3
MAE 216L	1	MSEN 351L ^(AoE)	1
MAE 320	3	MSEN 354 ^(SP only /AoE)	3
TOTAL	13	TOTAL	16
Year Four, 1 st Semester		Year Four, 2 nd Semester	
IENG 302 & IENG 302L ^(AoE)	3	MAE 423	3
MAE 316	3	MAE 472S	3
MAE 456 & MAE 456L	3	Material Science Elective ^(AoE)	3-4
MAE 471S	3	Technical Elective ⁽²⁾	3
MSEN 355 ^(AoE)	3	Technical Elective ⁽³⁾	3
Technical Elective ⁽¹⁾	3		
TOTAL	18	TOTAL	15-16

Students must have a cumulative GPA of 2.25 in all college coursework attempted, and a C- or better in MTH 263 (WVU MATH 155) and EGR 121 (WVU ENGR 101) to be admitted directly to the Mechanical Engineering Program at the Statler College of Engineering and Mineral Resources upon transferring to West Virginia University to ensure this pathway.

Students who have questions about GEF requirements or any other issue relating to academics at West Virginia University should contact the Office of Undergraduate Education at WVU.

The above transfer articulation of credit between West Virginia University and Virginia's Community Colleges, is approved by the Dean, or the Dean's designee, and effective the date of the signature.

Robin Hissam

Print Name



Signature

01/30/2026

Date

Robin Hissam, Ph.D. Associate Dean for Academics and Student Performance – Statler College of Engineering and Mineral Resources