

# College of Southern Maryland & West Virginia University



Associate of Science in Engineering A.S. leading to  
Bachelor of Science in Biomedical Engineering B.S.Bm.E.  
Suggested Plan of Study



College of Southern Maryland	Hours	WVU Equivalents	Hours
Year One, 1 <sup>st</sup> Semester			
EGR 1100	3	MAE 102 (Required)	3
ENG 1010	3	ENGL 101 (Required)	3
MTH 1200	4	MATH 155 (Required)	4
CHE 1200 & CHE 1200L	4	CHEM 115 & CHEM 115L (Required)	4
Arts Elective	3	Elective	3
<b>TOTAL</b>	17		17
Year One, 2 <sup>nd</sup> Semester			
EGR 1210	3	MAE 241 (Engineering Elective 1)	3
MTH 1210	4	MATH 156 (Required)	4
PHY 1310	4	PHYS 1TC	4
COM 1010	3	COMM 270 & COMM 270S	3
<b>TOTAL</b>	15		15
Year Two, 1 <sup>st</sup> Semester			
MTH 2200	4	MATH 251 (Required)	4
MTH 2210	4	MATH 261 (Required)	4
PHY 2300	4	PHYS 111 & PHYS 111L (Required)	4
EGR 2210 (Technical Elective)	3	MAE 242 (Engineering Elective 2)	3
<b>TOTAL</b>	15		15
Year Two, 2 <sup>nd</sup> Semester			
PHY 2320	4	PHYS 112 & PHYS 112L (Required)	4
SOC 2010	3	SOC 2TC	3
EGR 2200 (Technical Elective)	3	MAE 243 (Engineering Elective 3)	3
EGR 2320 (Technical Elective)	3	MAE 320 (Sub for BMEG 321)	3
Social/Behavioral Science w/ CGA	3	General Elective	3
<b>TOTAL</b>	16		16
Summer Session (CSMD or WVU)		*BIO 1060 & BIO 1060L or BIOL 115 & BIOL 115L (Required)	4
		CHE 1210 & CHE 1210L or CHEM 116 & CHEM 116L (Required)	4

West Virginia University			
Summer Session		*BIOL 117 & BIOL 117L or BIOL 235	3-4
Year Three, 1 <sup>st</sup> Semester		Year Three, 2 <sup>nd</sup> Semester	
BMEG 201	4	BMEG 230	3
CHEM 233 & CHEM 233L	4	BMEG 310	3
STAT 215 or IENG 213	3	BMEG 315	4
EE 221 & EE 221L	4	BMEG 340	4
<b>TOTAL</b>	15	<b>TOTAL</b>	14
Year Four, 1 <sup>st</sup> Semester		Year Four, 2 <sup>nd</sup> Semester	
BMEG 311	3	Technical Elective <small>(Science Elective 2)</small>	3
BMEG 420 & BMEG 420L	4	Science or Engineering Technical Elective	3
Technical Elective <small>(Science Elective 1)</small>	3	BMEG 456S	3
BMEG 455 & BMEG 445S	4		
<b>TOTAL</b>	14	<b>TOTAL</b>	9

\*Students need to complete both BIOL 115 & BIOL 115L and BIOL 117 & BIOL 117L or BIOL 235 before starting their first semester at WVU. Students can complete BIO 1060 & BIOL 1060L at CSMD to meet the BIOL 115/L requirement. Both are prerequisites for upper-level BMEG course work.

Students must have a cumulative GPA of 2.25 in all college coursework attempted, and a C- or better in MAT 1200, (WVU MATH 155), and EGR 1100 (WVU MAE 102) to be admitted directly to the Biomedical Engineering Program at the Statler College of Engineering and Mineral Resources upon transferring to West Virginia University to ensure this pathway.

Since CMSD students transfer up to MATH 261, they do not need to take ENGR 101 specifically. Another engineering technical elective from CMSD or WVU can satisfy this credit.

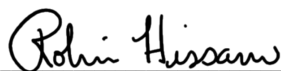
Students transferring to West Virginia University with an Associate of Arts or Associate of Science degree will have satisfied the General Education Foundation requirements at WVU.

Students who have questions about admission into their intended program, 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 College of Southern Maryland, is approved by the Dean, or the Dean's designee, and effective the date of the signature.

Robin Hissam

Print Name



Signature

05/10/2026

Date

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

Print Name

Signature

Date

Dr. Bernice Brezina, Interim Vice President, Division of Learning.