



Richard Bland College
of WILLIAM & MARY

RESOLUTION FOR APPROVAL OF ACADEMIC CURRICULA AND DEGREE

Richard Bland College of William & Mary (RBC) is dedicated to preparing students for a lifetime of endless potential by preparing students for university transfer through academically rigorous programs and access to college credentials through strategic partnerships, specialized programming, and scalable innovation.

Stackable credentials will provide opportunities for Richard Bland College to serve a more diverse student body (traditional and non-traditional) and, at the same time, be more responsive to employer needs.

Currently, RBC offers eight (8) degree programs and four (4) certificates. RBC's 2026 Strategic Plan calls for the design and/or update of programs that prepare learners for entry into employment or further education in fields of economic importance.

The Advanced Manufacturing Engineering Technology (AMET) degree builds foundational skills in several different manufacturing related areas. The course of study develops concepts related to electrical, mechanical, programming, pneumatics, hydraulics, design, and robotics, all of which are critical within the manufacturing industry. This course of study will help to develop a guided pathway for positions across the Manufacturing Industry.

The Advanced Manufacturing Engineering Technology degree has equivalencies to 2-year and 4-year counterparts in-state and out-of-state. This degree helps build the foundation for a vital career in manufacturing, assisting students in quality career pathways and the community in workforce development. The AMET degree also supports Richard Bland College's Natural Science and Math Department by expanding into new STEM fields.

The Advanced Manufacturing Engineering Technology degree aligns with the Growth4VA workforce goals to make Virginia the top state for talent by creating a diverse array of accessible pathways from learning to earning; providing affordable education that suits Virginian's aspirations and abilities; enhancing entrepreneurship, resilience, and quality of life through research and problem-solving innovation; and increasing individual opportunity — for a great job, career, life, and to give back in ways that improve our families, communities, state and nation.

**Associate of Science
Advanced Manufacturing Engineering Technology**

Category	Course	Credits Required
The Art of Language & Ideas* (3 courses)	ENG 101	3
	ENG 102	3
	COMM 101	3
The Language & History of Fine Arts (1 course)	Example: Art Survey, Music Appreciation	3
The Human Experience (1 course)	Example: Sociology/Psychology	3
Investigation of the Natural World (2 courses w/labs)	CHEM 101 & 101L	4
	PHYS 101/201*	4
Quantitative & Symbolic Reasoning ** (2 courses) Choose 2 sequential courses from MATH	MATH 121/217/151/251	3-4
	MATH 151/217/251/252	3-4
U.S. & World Cultures (1 course)	History, Government, Econ, Geography	3
Computer Proficiency (1 course)	CSCI 121 or CSCI 221	3
AMET Requirements (2 courses)	AMET 111: Safety Culture & Shop Fundamentals	2
	AMET 131: Electricity Fundamentals	4
AMET Electives (20 credits required)	AMET 121: Theory of Industrial Automation	3
	AMET 210: Electric Motors & Controls	3
	AMET 201: Applied Electronics	3
	AMET 202: Engineering Design	3
	AMET 211: Mechanical Power Systems	4
	AMET 221: Fluid Power Systems	3
	AMET 231: PLC Fundamentals	3
	AMET 241: Industrial Robotics	4
	AMET 251: Mechanical & Electrical Troubleshooting	4
Total (60 credits required)		61-63

*Potential Engineering majors should take PHYS 201

**Potential Engineering majors should take MATH 251 & 252

The proposed Associate of Science degree in Advanced Manufacturing Engineering Technology has been reviewed in accordance with RBC policies, procedures, and shared governance protocol. The recommended change to the College Catalog was approved by the Richard Bland College Instructional Programs and Curriculum Committee on February 16, 2023, presented for discussion at Faculty Assembly on February 23, 2023, and approved following President's Council review and support on March 21, 2023.

THEREFORE, BE IT RESOLVED, That upon the recommendation of the President, the William & Mary Board of Visitors approves the Advanced Manufacturing Engineering Technology degree program and authorizes the President to pursue approval of the program by the State Council on Higher Education in Virginia.