Virginia Tech Bachelor of Science in Aerospace & Ocean Engineering (Aerospace Major) TRANSFER GUIDE Catalog Year: 2025 - 2026 Associate Transfer Degree Plan in Engineering

COURSE REQUIREMENTS

	Complete at Virginia Tech									
BACHELOR'S DEGREE REQUIREMENT		SATISFIED BY		BACHELOR'S DEGREE REQUIREMENT		1 st sem (fall)	2 nd sem (spring)	3 rd sem (spring)	4 th sem (fall)	5 th sem (sprin g)
Course	Credits	CC Course	Notes	Course	Credits	Notes				
VT 1XXX	1-2	SDV 100 or 101		AOE 2054	3	(if EGR 271 not taken)				
ENGL 1105	3	ENG 111		CS 1044 or CS 1064 or CS 1114	3	(if not taken at VCCS)				
ENGL 1106	3	ENG 112		AOE 2074	2					
Pathways Concept 2	3	Any UCGS Art or Humanities		AOE 2104	3					
Pathways Concept 2	3	Any UCGS Art, Humanities, or Lit	This course must come from a different group than prior requirement.	AOE 2024	3					
Pathways Concept 3	3	Any UCGS History	Pathways Concept 3	MATH 4564	3					
ECON 2005	3	ECO 202		AOE 3014	3					
MATH 1225	4	MTH 263		AOE 3034	3					,
MATH 1226	4	MTH 264		AOE 3124	3					
MATH 2204	4	MTH 265		AOE 3154	3					
MATH 2214	3	MTH 267		AOE 3114	3		Taug	ht spring	only	
PHYS 2305	4	PHY 241		AOE 3134 or 3144	3		Taug	ht spring	only	
PHYS 2306	4	PHY 242		AOE 3164	3		Taug	ht spring	only	
CHEM 1035 + 1045	4	CHM 111		AOE 3054	3					
ENGE 1215	2	EGR 121		Track Technical Electives	9		urses, fror aken any t			
ENGE 1216	3	EGR 122		AOE 4105	1		Tau	ight fall o	nly	

ESM 2104 (+ESM 2204 will sub for AOE 2014)	3	EGR 240		AOE 4065 4165 or or 4066 4166	3+3	Year-long senior design (must begin in fall, and end in spring)			
ESM 2204 (+ESM 2104 will sub for AOE 2014)	3	EGR 246		MATH elective	3				
MATH 2114	3	MTH 266		Technical Elective	6	2 courses to be taken any term to fill in schedule			
ESM 2304	3	EGR 245		AOE 4106	1				
AOE 2054	4	EGR 271		Free elective	0-3	If additional hours needed to reach 127 total			
Programming Elec (CS 1044 or 1064 or 1114)	3	CSC 210 or CSC 221 or CSC 222	one of these courses required	ENGE 3900 0 Career Bridge Experience Career Bridge Experiences help prepare students for post-graduation life and develop a professional identity. Internships, Co-ops, and Undergraduate Research are examples of possible Career Bridge Experiences. Because some of these experiences are not credit bearing, the ENGE 3900 course is used to track and assess student participation in Career Bridge and to record fulfillment of this degree requirement on the transcript. Students should enroll in ENGE 3900 during the semester (or one of the semesters) that they undertake the Career Bridge Experience. Enrollment in ENGE 3900 requires approval of a Career Bridge Plan. Further information about acceptable Career Bridge Experiences and the process for submitting a Career Bridge Plan are explained within your major courses.					

TRANSFER GUIDANCE

Guaranteed Admission Agreement

Students who complete the prescribed curriculum and meet the criteria below are guaranteed admission into Virginia Tech and directly into the Aerospace Major:

- Earn a transfer associate degree AS in Engineering (or AS/AA&S in Science with Specialization in Engineering)
- Earn a minimum of 3.2 GPA for the associate degree.

- Applicants for this major can be guaranteed for the Summer, or Fall entry terms.
- Complete all steps of the formal admissions application process by the appropriate deadlines for the intended term of entry. Most applicants pursuing guaranteed admission will apply as they are finishing their associate degree.

IMPORTANT LINKS & DATES:

- Transfer Initiatives Office: https://advising.vt.edu/transfer-student-advising.html
- Admission Application: Find full application instructions and applicable deadlines at: https://vt.edu/admissions/transfer/checklist.html
 - Financial Aid: https://www.finaid.vt.edu
 - FAFSA Free Application for Federal Student Aid: March 1 for fall semester at https://www.studentaid.gov

WHAT SHOULD I CONSIDER WHEN SELECTING COURSES?

- Create a schedule for all required courses, pay attention to prerequisites and when courses are
 offered, complete your first math and English courses in your first year. For help, see Transfer
 Steps and Resource Center at https://www.TransferVirginia.org
- Connect with an advisor at your community college and Virginia Tech within your first year.
 College Connect available in your account of https://www.TransferVirginia.org

IS THIS DEGREE RIGHT FOR ME?

- The Bachelor of Science degree in Aerospace and Ocean Engineering is accredited by ABET.
- Students can choose among nine degree tracks: Aero / hydrodynamics, Dynamics, control, and estimation, Energy and the environment, Foundational option, Naval engineering, Propulsion, Space engineering, Structures and materials.
- Students are encouraged to participate in undergraduate research with faculty at Virginia Tech

WHAT IS THE IMPACT ON MY DEGREE OF WORK I HAVE ALREADY COMPLETED?

- Associate Transfer Degree Completion: The completion of an Associate Degree results in all lower-division general education requirements being met when you transfer to Virginia Tech.
- Credit for Prior Learning: AP, IB, and CLEP are evaluated for credits https://www.registrar.vt.edu/Advanced-Standing-Transferable-Credit.html
- Catalog Year: Catalog year determined by first semester of attendance at tVirginia Tech.
- Dual Enrollment Completion of Associate Degree in HS: The completion of an Associate
 Degree concurrent with high school results in up to half the required credits (127) towards
 an AE degree, with all general education courses satisfied. Students will be enrolled as a
 freshman for orientation and engagement purposes.

IS THIS COLLEGE RIGHT FOR ME?

- Virginia Tech's College of Engineering undergraduate programs are ranked 13th in the nation, according to U.S. News & World Report
- Located in rural area, with 2600-acre campus, 37,000 on and off campus students, and a 14:1 student-faculty ratio
- Transfer students have both on-campus and off-campus housing options, including a living community on campus just for transfer students (all majors). https://llp.vt.edu/llc/transfer.html

- Virginia Tech is a diverse campus with students from over 40 states and 115 countries.
- Students can attend full-time or part-time.
- Classes are most typically offered Monday Friday, 8am 5pmLearn more about our university at https://vt.edu/about/facts-about-virginia-tech.html

DID YOU KNOW THAT...

- Completing your Associate transfer degree post-high school satisfies all lower division general education requirements and increases the chance of completing your bachelor's degree?
- Exceeding 3 years or 90 credits at your community college means you may have exhausted your financial aid at that college and have limited your future financial aid at Virginia Tech

WHAT CAN I DO WITH THIS DEGREE?

- Virginia Tech's Kevin T. Crofton Department of Aerospace and Ocean Engineering offers an
 unusual approach to understanding and exploiting the similarities between two seemingly
 disparate fields. This perspective allows our researchers to forge new paths through
 aerospace and ocean engineering, and launches our graduates into careers that deepen our
 understanding and advance our technology. Our most valuable asset, however, is our
 commitment and proven ability to teach students how to tackle complex systems.
- Explore possible careers, salaries, and job outlook at https://eng.vt.edu/academics/undergraduate-students/explore-engineering.html

PROGRAM SUCCESSES & HIGHLIGHTS

- 61% of undergraduate AOE students expect full-time employment, most typically in the areas of Aerospace or Shipbuilding Industries, Federal Government Agencies (NASA, DOD, etc.), or Maritime Agencies
- The median starting salary of 22/23 AOE graduates was \$80,000 (with a median bonus of \$5,000)

WHAT ARE MY CHANCES FOR GETTING ACCEPTED?

Each year around 400-450 VCCS transfer students apply for admission to a program in the Virginia Tech College of Engineering. Between 60-70% are typically offered admission. The average GPA of transfer students enrolling is 3.5.

Learn more about applying at https://vt.edu/admissions/transfer.html

DO MORE WITH YOUR DEGREE!

Students may complete an accelerated Master's degree in one additional year of enrollment

TransferVirginia.org