

Transfer Guide

Catalog Year: 2025 - 2026

Bachelors of Science in Industrial and Systems Engineering Associate Transfer Degree Plan in Engineering

COURSE REQUIREMENTS

Complete at VCCS				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 (fall or spring)	4 th sem (fall)	5 th sem (spring)
Course	Credits	CC Course	Notes	Course	Credits	Notes				
VT 1XXX	1-2	SDV 100 or 101		ISE 2004	1					
ENGL 1105	3	ENG 111		ISE 2024	3					
ENGL 1106	3	ENG 112		ISE 2034	3					
Pathways Concept 2	3	Any UCGS Art or Humanities		ISE 2404	3					
Pathways Concept 2	3	Any UCGS Art, Humanities, or Lit	This course must come from a different group than prior requirement.	ISE 3614	3					
Pathways Concept 3	3	Any UCGS History		ISE 2804	3					
Pathways Concept 3	3	Any UCGS Social/Behav Science		STAT 4706	3					
MATH 1225	4	MTH 263		ISE 3034	3					
MATH 1226	4	MTH 264		ISE 3214	3					
MATH 2204	4	MTH 265		ISE 3414	3					
MATH 2214	3	MTH 267		Free elective	3					
PHYS 2305	4	PHY 241		ISE 2214	1					
PHYS 2306	4	PHY 242		ISE 3424	3					
ENGE 1215	2	EGR 121		ISE 3624	3					
ENGE 1216	3	EGR 122		ISE 4204	3					
MATH 2114	3	MTH 266		ISE Technical Elective	6	2 courses				
ESM 2104	3	EGR 240		ISE 4404	3					

ISE 2014	2-3	EGR 206		ISE 4005	ISE 4006	2 + 2	Year-long design project (must begin in fall, and end in spring)
CS 1064	3	CSC 221		ISE Technical Elective		3	
ESM 2304 or 2204	3	EGR 245 or 246		Technical Electives		6	2 courses
CHEM 1035/1045	4	CHM 111					
				Free elective		3	
				ENGE 3900			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.			
CREDITS PRE-TRANSFER: 61-63				CREDITS POST-TRANSFER: 63 (degree total 124)			

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 Industrial & Systems Engineering 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 Spring, 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 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 ISE is accredited by [ABET](#).
- The Department offers required and elective courses encompassing the breadth of the industrial engineering discipline: human factors engineering and ergonomics, manufacturing systems, operations research, and management systems.
- 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 Virginia 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 (124) towards a ISE 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 – 5pm

Learn 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?

- The mission of the ISE Undergraduate Program is to prepare industrial and systems engineering students to create value for organizations, the profession, and society. We achieve this mission by recruiting, retaining, and educating high quality and diverse students and by creating a rigorous and collegial environment enabling students to learn industrial engineering methods and tools, built upon a foundation of mathematical, physical, and engineering sciences, and to apply them in any global organizational setting. Students can achieve academic and professional success through opportunities to participate in various educational

experiences, to develop capabilities as future leaders, and to embark on a lifelong journey of professional development and learning.

- Explore possible careers, salaries, and job outlook at <https://www.TransferVirginia.org> and <https://eng.vt.edu/academics/undergraduate-students/explore-engineering.html>

PROGRAM SUCCESSES & HIGHLIGHTS

- The ISE program is ranked #3 in the US among Best Undergraduate Engineering Programs by US News and World Report
- The median starting salary of 22/23 ISE graduates was \$77,000 (with a median bonus of \$7,000)

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