

Bachelors of Science in Mining 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)	4 th sem (spring)	5 th sem (fall)	6 th sem (spring)
Course	Credits	CC Course	Notes	Course	Credits	Notes				
VT 1XXX	1-2	SDV 100 or 101		MINE 2504	3					
ENGL 1105	3	ENG 111		MINE 2534	3					
ENGL 1106	3	ENG 112		MINE 3664	3					
Pathways Concept 2	3	Any UCGS Art or Humanities		GEOS 3404 or 4824	3					
Pathways Concept 2	3	Any UCGS Art, Humanities, or Lit	This course must come from a different group than prior requirement.	MINE 2544	2					
Pathways Concept 3	3	Any UCGS History		MINE 2564	3					
Pathways Concept 3	3	Any UCGS Social/Behav Science	This course may not be a history course.	MINE 3584	3					
MATH 1225	4	MTH 263		Technical Elective	6	2 courses total – taken as needed to fill in schedule				
MATH 1226	4	MTH 264		GEOS 4624	3					
MATH 2204	4	MTH 265		MINE 3604	3					
MATH 2214	3	MTH 267		MINE 3624	3					
PHYS 2305	4	PHY 241		MINE 3634	3					
CHEM 1035+1045	4	CHM 111		MINE 3674	3					
ENGE 1215	2	EGR 121		MINE 3644	2					
ENGE 1216	3	EGR 122		MINE 3564	3					
MATH 2114	3	MTH 266		MINE 3574	3					
ESM 2104	3	EGR 240		MINE 4635	MINE 4636	2 + 2	Year-long design project (must begin in fall, and end in spring)			

ESM 2204	3	EGR 246		MINE 4614	2	
ESM 2304	3	EGR 245		MINE 4624	3	
GEOS 1004 + 1104	4	GOL 105 or 110		MINE 4654	3	
PHYS 2306	4	PHY 242				
				MINE 4664	1	
				MINE 4644	2	
				Free elective	3	
CREDITS PRE-TRANSFER: 67-68				CREDITS POST-TRANSFER: 67 (degree total 128)		

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 Mining 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 Fall, Spring or Summer entry terms.
- Register your intent in the Transfer Virginia Portal to use this guarantee after the completion of 15 credit hours and prior to the completion of 30 hours.
- 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>
- **Register Intent to Transfer:** By completion of 30 hours at www.TransferVirginia.org
- **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://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 MINE is accredited by [ABET](#).
- From farms to cities to every-day technological devices, mineral and energy resources are the building blocks of human society. But how do we continue to extract and develop these critical resources in a way that is safe and sustainable for both people and the environment? Mining and minerals engineers answer that question by locating the places, applying the latest technology, and, most of all, creating the best solutions and ethical practices to develop these important resources.
- 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 (125) towards a MSE 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?

- Hokie mining engineers have pursued careers in a wide range of specialties, including geological exploration, mineral economics, metallurgy, processing, facility engineering and design, and environmental development. As one of the most hands-on of all the engineering fields, our graduates find themselves working outdoors, with opportunities to work in exciting locations around the globe.
- 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

- MINE has low student-to-faculty ratio, individual mentorship and advising, active student organizations and professional chapters, ample scholarship funding, and excellent job placement rate.
- 76% of undergraduate MINE students expect full-time employment upon graduation
- The median starting salary of 22/23 MINE graduates was \$67,000 (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