

University of Virginia BS in Material Science and Engineering

Associate Transfer Degree Plan in Engineering

COURSE REQUIREMENTS

Complete at VCCS				Complete at University of Virginia		
BACHELOR'S DEGREE REQUIREMENT	SATISFIED BY			BACHELOR'S DEGREE REQUIREMENT		4 SEMESTERS TO BS in MSE
Course*	Credits	CC Course	Notes	Course	Credits	Notes (Fall/Spring noted when only offered that semester)
Does not transfer	1-2	SDV 100 or 101		MSE 2090	3	Semester 1
HSS Elective 1	3	ENG 111		MSE 2101	3	Semester 1, Fall
ENGR 1020	3	ENG 112 or 113	Prefer ENG 113	MSE 3050	3	Semester 1, Fall
Unrestricted Elective 1	3	Any UCGS Art or Humanities		MSE Elective 1	3	Semester 1 or 3
Unrestricted Elective 2	3	Any UCGS Art, Humanities, or Lit	This course must come from a different group than prior requirement.	Engineering Elective 1	3	Semester 1 or 3
HSS Elective 2	3	Any UCGS History		STS 2600	3	Semester 1 or 2
HSS Elective 3	3	Any UCGS Social/Behav Science	This course may not be a history course.	MSE 3070	3	Semester 2, Spring
Unrestricted Elective 3	4	MTH 263	MTH 263 prerequisites not included in this transfer guide. Discuss with community college advisor if applicable. 3 credits for Unrestricted Elective 1 credit for APMA 2130	MSE 3101	3	Semester 2, Spring
APMA 1110	4	MTH 264		MSE Elective 2	3	Semester 2
APMA 2120	4	MTH 265		MSE Elective 3	3	Semester 2 or 4
APMA 2130	3	MTH 267		Technical Elective 2	3	Semester 2
APMA 3110	3	MTH 283		Engineering Elective 2	3	Semester 2
PHYS 1425/1429	4	PHY 241		MSE 4592 (Capstone 1)	3	Semester 3
PHYS 2415/2419	4	PHY 242		MSE 3060	3	Semester 3, Fall
CHEM 1410/1411	4	CHM 111		MSE 3670	3	Semester 3, Fall
Math/Science Elective 1	4	BIO 101, CHM 112, MTH 266, OR GOL 105		Math/Science Elective 2	3	Semester 3

ENGR 1010	2	EGR 121	Both EGR 121 & 122 to satisfy ENGR 1624 OR ENGR 1010	STS 4500	3	Semester 3
ENGR 1010	3	EGR 122	Only 2 credits will be applied to ENGR 1010	MSE Elective 4	3	Semester 4
CS 1110	3	EGR 125 or CSC 221		MSE 4592 (Capstone 2)	3	Semester 4
Technical Elective 1	3	EGR 240 and above		MSE 4320	3	Semester 4, Spring
				MSE Elective 5	3	Semester 4
				STS 4600	3	Semester 4
CREDITS PRE-TRANSFER: 64-65				CREDITS POST-TRANSFER: 66		
* HSS = Humanities and Social Science (content primarily on studying cultures, society and people)						

TRANSFER GUIDANCE

Guaranteed Admission Agreement (GAA)

Students who complete the prescribed curriculum and meet the GAA criteria are guaranteed admission into UVA Engineering and directly into the Material Science and Engineering Major.

- To be competitive for admission outside the GAA, students should meet all or nearly all of the program's general education requirements, earn a minimum GPA of 3.0 or better at your current institution, and have 60-64 transferable credits.

IMPORTANT LINKS & DATES:

- University Transfer Admissions:** <https://admission.virginia.edu/admission/transfer>
- Admission Application:** By March 1 at <https://www.commonapp.org/>
- Financial Aid:** <https://sfs.virginia.edu/>, <https://sfs.virginia.edu/financial-aid-new-applicants/how-apply-aid-undergrad-programs/how-apply-financial-aid-transfer>, <https://sfs.virginia.edu/guide-css-profile>
- FAFSA - Free Application for Federal Student Aid:** April 1 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 www.TransferVirginia.org
- Connect with an advisor at your community college and in Material Science and Engineering at UVA within your first year.

IS THIS DEGREE RIGHT FOR ME?

- Materials Science drives technologies forward. Advances in materials science accelerate progress in other fields, expand the possibilities of technology, and are essential to creating a sustainable future. MSE offers students a fundamental background in the structure, properties, processing, and performance of materials. This background is essential to engineers or scientists in understanding the selection of materials for various applications.
- [Materials Science & Engineering at UVA](#)
- [Options for Undergraduates at UVA MSE](#)
- [Meet UVA MSE Students](#)

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 most first and second year degree requirements being met when you transfer to UVA Engineering, , except MSE and STS courses not offer through VCCS.
- Dual Enrollment – Completion of Associate Degree in HS:** The completion of an Associate Degree concurrent with high school results in 60 credits of coursework towards your degree and most general education courses satisfied. Students apply as and enroll as a first year for orientation and engagement purposes.
- Credit for Prior Learning:** Consult the Undergraduate Record for Advanced Examination test score (i.e. AP, IB, Military Experience) needed to earn course credit: http://records.ureg.virginia.edu/content.php?catoid=52&navoid=4102#adva_exam
- Catalog Year:** Catalog year determined by first semester of attendance at the community college post high-school graduation.

IS THIS COLLEGE RIGHT FOR ME?

- UVA Engineering has the highest four-year graduation rate for all undergrads and for Hispanic, Asian, and African-American students compared to all public engineering schools in the country
- UVA Engineering has the highest percentage of women students for all engineering schools with at least 200 female graduates per year. Learn more at [Degrees Awarded | Institutional Research & Analytics \(virginia.edu\)](#).
- AccessUVA guarantees 100% of demonstrated need for undergraduates, who are admitted on a need-blind basis
- UVA engineering emphasizes the integral role of engineering in society, and our grads are widely recognized for their leadership and communication skills

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 the University of Virginia.

WHAT CAN I DO WITH THIS DEGREE?

- Explore careers of UVA Engineering graduates through the [First Destination Reports](#).
- Explore possible careers, salaries, and job outlook at www.TransferVirginia.org

PROGRAM SUCCESSES & HIGHLIGHTS

- The MSE program at UVA is a small and close-knit program where students know their professors and each other. We care about the members of our community and have regular get-togethers and events. Even though we are small, our faculty are world-class and pursuing research to enhance all areas of life.
- [Learn about UVA MSE in the news](#)

WHAT ARE MY CHANCES FOR GETTING ACCEPTED?

- Any transfer student accepted to the UVA School of Engineering and Applied Sciences may major in Material Science and Engineering. There is no additional major application process. We look forward to you joining our program.
- Most enrolling applicants are admitted without having met all of the guaranteed admission criteria.

DO MORE WITH YOUR DEGREE!

- UVA MSE students are involved in our program and the field of Materials Science & Engineering. Most students work in our labs and gain valuable research experience during their time at UVA. Many students participate in our chapter of the national student club Material Advantage.
- [Tour our research labs](#)
- [Learn about our student club Material Advantage](#)

OTHER THAN CLASSES, ARE THERE OTHER PROGRAM REQUIREMENTS?

- All UVA engineers complete a senior thesis portfolio, with a Science, Technology & Society research paper and a technical report, and these experiences are integrated into required courses during the fourth year.