

The Engineering Certificate

Are you eligible? If you think you are or will be by graduation make an appointment with your guidance counselor NO LATER THAN APRIL 1st to confirm that you have met the following requirements.

Category 1: Core Engineering Education Electives (All Required)

☐ 551	Introduction to Engineering^	2.5 Credits
☐ 552	Mechanical Engineering	2.5 Credits
☐ 553	Electrical Engineering	2.5 Credits

Additionally: One from the following courses

☐ 730, ☐ 781	Adventures in Coding and Computing	2.5 Credits
☐ 732, ☐ 785	Intro. to Python Programming*	2.5 Credits
☐ 733, ☐ 793	Intro. to Java Programming	2.5 Credits
☐ 781	Computer Science Discoveries*	2.5 Credits
☐ 783, ☐ 784	Computer Science Principles or AP*	5 Credits

Category 2: Introductory Physics (Required)

☐ 541, ☐ 542, ☐ 547	Physics	5 Credits
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Category 3: Science [Non-Intro Physics] Requirement (Two Years - 10 Credits)

☐ 511, ☐ 513	Planet Earth*	5 Credits
☐ 521, ☐ 523	Intro. Biology	5 Credits
☐ 531, ☐ 532, ☐ 533	Intro. Chemistry	5 Credits
☐ 537	Chemistry in the Community	5 Credits
☐ 525	Advanced Placement Biology	5 Credits
☐ 535	Advanced Placement Chemistry	5 Credits
☐ 519	AP Environmental Science	5 Credits
☐ 544	AP Physics C (Mechanics)	5 Credits
☐ 526	Human Anatomy and Physiology	5 Credits
☐ 514, ☐ 561	Advanced Earth Science - Astronomy	2.5 Credits
☐ 517, ☐ 570	Advanced Earth Science - Geology	2.5 Credits
☐ 536, ☐ 567	Forensic Science	2.5 Credits
☐ 538, ☐ 576	Organic Chemistry	2.5 Credits
☐ 558	The Human Body	2.5 Credits
☐ 564	The Science of Food and Cooking	2.5 Credits
☐ 584, ☐ 586	Biotechnology	2.5 Credits
☐ 588, ☐ 590	Marine Biology	2.5 Credits

Category 4: Math (Three Years)

☐ Math Courses*

Category 5: General Technology Electives (Choose One - 2.5 Credits)

SIGNATURES BELOW ARE REQUIRED FOR IMPLEMENTATION OF THE CERTIFICATE: Deadline April 1st of Senior Year

Student Name: _____ YOG: _____ Signature: _____ Date: _____

Counselor Signature: _____ Date: _____

Science Dept. Chair Signature: _____ Date: _____

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☐ 761, ☐ 763	3D Graphics*	2.5 Credits
☐ 763	Advanced 3D Graphics	2.5 Credits
☐ 765	Computer Game Design*	2.5 Credits
☐ 767	Architectural Drafting and Design*	2.5 Credits
☐ 768	Adv. Architectural Drafting & Design	2.5 Credits
☐ 769, ☐ 771	Animation*	2.5 Credits
☐ 775, ☐ 777	Digital Art*	2.5 Credits
☐ 721, ☐ 723, ☐ 725	Digital Photography	2.5 Credits
☐ 751, ☐ 755, ☐ 757	Filmmaking	2.5 Credits
☐ 781	Computer Science, Coding/Discoveries*	2.5 Credits
☐ 785	Intro. to Python Programming*	2.5 Credits
☐ 787	Advanced Python Programming*	2.5 Credits
☐ 793, ☐ 797	Java Programming/Java 1/Honors	2.5 Credits
☐ 794, ☐ 797	Adv. Java Programming/Java 2	2.5 Credits
☐ 795	AP Java Programming	5 Credits
☐ 781	Computer Science Discoveries*	2.5 Credits
☐ 783, ☐ 784	Computer Science Principles or AP*	5 Credits

Other Approved by Science Dept. Chair _____

Total Credits Required for Certificate: ☐ 42.5 Credits

*Course available to 9th-grade students

^Course available to 9th-grade students in Semester 2 with Science teacher approval

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Counselor Signature: _____ **Date:** _____

Science Dept. Chair Signature: _____ **Date:** _____