

# Science, Technology, Engineering, & Mathematics (STEM)

**Imagine Edgenuity® courses for STEM careers are focused on rigorous problem solving through research and design.**

These rigorous and relevant courses help students prepare for further study and career entry into exciting jobs in these areas by engaging with other researchers, scientists, and engineers to design and develop solutions that address social science, engineering or other complex issues.

Imagine Edgenuity courses for this CTE cluster, and related courses students take in science, math, and technology areas, as part of the graduation and elective requirements, introduce students to the essential knowledge and skills they will need to continue beyond high school in their selected career path. The Imagine Edgenuity STEM Career Pathway courses provide a broad set of learning experiences to help students build the critical thinking and problem-solving skills and framework they will need for these exciting careers.

In 2017, 35 percent of all students who completed two or more courses in CTE, completed those courses in STEM and STEM-related (Health Science; Agriculture, Food, and Natural Resources; and Information Technology) career clusters.<sup>1</sup>



Entry level salary range:  
**\$39,000–\$100,000\*\***



## Career Pathways

<b>Introductory Course</b>	<input type="checkbox"/> Introduction to STEM* <input type="checkbox"/> Science and Mathematics in the Real World* <input type="checkbox"/> Scientific Discovery and Development* <input type="checkbox"/> STEM and Problem Solving* <input type="checkbox"/> Introduction to Careers in Architecture and Construction* <input type="checkbox"/> Scientific Research* <input type="checkbox"/> Introduction to Computer Science <input type="checkbox"/> Astronomy 1A: Exploring the Universe* eDL <input type="checkbox"/> Astronomy 1B: Exploring the Universe* eDL <input type="checkbox"/> Biotechnology 1A: Unlocking Nature's Secrets* eDL <input type="checkbox"/> Biotechnology 1B: Unlocking Nature's Secrets* eDL	<input type="checkbox"/> Concepts of Engineering and Technology* eDL <input type="checkbox"/> Forensics: The Science of Crime A* eDL <input type="checkbox"/> Forensics: The Science of Crime B* eDL <input type="checkbox"/> Forensics: Using Science to Solve a Mystery** <input type="checkbox"/> Great Minds in Science: Ideas for a New Generation eDL <input type="checkbox"/> Marine Science1A: Secrets of the Blue* eDL <input type="checkbox"/> Marine Science1B: Secrets of the Blue* eDL <input type="checkbox"/> Renewable Technologies 1A* eDL <input type="checkbox"/> Renewable Technologies 1B* eDL
<b>Concentrator Courses</b>	<input type="checkbox"/> Engineering and Design* <input type="checkbox"/> Engineering and Product Development* <input type="checkbox"/> Wide Variety of Options for Imagine Edgenuity Science and Mathematics Core, Elective and AP Courses.	

## Rigorous, engaging, career-relevant course design

Imagine Edgenuity CTE courses introduce students to STEM-related careers, as well as providing opportunities for students to deepen their understanding of the course material by applying academic and technical skills to real-world tasks and learning experiences. Course content focuses on objectives directly related to relevant, current technologies and practices.

The career focus provides students with a sense of direction that motivates students to stay in school and achieve. Imagine Edgenuity's CTE courses prepare students for work in these industries with learning experiences designed to help students gain critical leadership, communication, teamwork, problem-solving, critical thinking, and interpersonal skills needed to succeed in the world beyond high school. By providing a clear context for learning, Imagine Edgenuity ignites student interest and helps students make informed decisions about their future.



### IMAGINE EDGENUITY'S STEM CTE COURSE FEATURES INCLUDE:

- Career-relevant hands-on projects
- Engaging direct-instruction videos
- Performance rubrics and exemplars to aid in instructor grading
- Contextual vocabulary support to help students with terms and phrases

Learn more at: [imaginelearning.com/CTE](https://www.imaginelearning.com/CTE)

\*semester course

\*\*US Bureau of Labor Statistics

eDL Imagine Edgenuity offers a suite of eDynamic Learning electives on a subscription basis, allowing students to pursue a large range of interests in language arts, creative arts, STEM, and CTE. These electives are priced separately by enrollment.

<sup>1</sup> U.S. Department of Education. Bridging the Skills Gap: Career and Technical Education in High School. (2019). Built by InformED. Retrieved from <https://www2.ed.gov/datastory/cte/index.html#WHOGRADUATESFINDSAJOB>



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