Career and Technical Education Programs (CTE)

From Rhode Island Department of Education
(https://www.ride.ri.gov/StudentsFamilies/EducationPrograms/CareerTechnicalEducation.aspx)

Acceptance into one of our four Career Technical Education programs that are rigorous, relevant, reflective, interactive, and integrated is a privilege an honor and is helping our students achieve success in high school to workforce development and from economic vitality to global competitiveness

CTE programs:

1. **Improve the educational experiences of learners**
   a. By providing an engaging, interesting, and relevant education that reduces dropout rates, and supports and improves student achievement
2. **Contribute to the development of a skilled, sustainable workforce** a. By preparing for the high-demand, high-skill and high-paying jobs of today and tomorrow
3. **Help learners discover a wide range of career options**
   a. By charting the most effective and efficient educational pathways for optimum value and success and navigate the students to their dreams and aspirations
4. **Work directly with business and industry in partnership**
   a. By ensuring that CTE programs are developing people with the skills, credentials and technical knowledge necessary to move Rhode Island toward the leading edge of innovation and global competitiveness.
5. **Can help reduce college tuition costs with potential postsecondary college credits**
   a. By taking advantage of postsecondary articulations
6. **Give learners a competitive advantage and/or employment opportunities** a. By establishing partnerships with local businesses
7. **Provide industry certifications**
   a. By successfully completing certification tests
8. **Create a link from school learning to real world jobs**
   a. By completing 80 hours of work-based learning experiences

Lincoln High School Offers ELEVEN RIDE Approved CTE Programs

Audio Design and Engineering CTE

The Lincoln High School Audio Design and Engineering CTE Program provides students with a strong foundation for those who wish to pursue careers in studio production, live production, or live performance. Students in our program will have real-world experience, and opportunities to utilize their skill sets for cross-curricular activities along with project-based learning tasks to reinforce acquired knowledge. With this program, students will also be able to be a part of our TRI-M chapter, the National Honors Society for Music, as well as be guided by professional/staff aligned with NAFME/RIMEA, and TI:ME memberships.

Students who complete the CTE program graduate with strong technical skills in audio design and engineering. Thanks to strong partnerships with local colleges/universities and media professionals, students are mentored and guided by professionals in various stages of professional development. Students will complete their CTE program having expressed proficiency using the professional Digital Audio Workstation Ableton.

Sequence	Courses	Length
Year 1	Music Production I / Audio Design and Engineering I	1 Year
Year 2	Music Production II / Audio Design and Engineering II	1 Year
Year 3	Music Theory or Audio Engineering Internship	1 Year
Years 1-4	Students must choose one of the following courses: Band, Chorus (Jazz Band/Select Chorus after school ensembles), OR An alternate applied learning activity approved by principal	½ or 1 Year

- *To be **completers** of the Audio Design & Engineering CTE program and receive the cord at graduation, students must successfully complete the sequence of courses above, complete at least 80 hours of work-based learning in the related program, and receive an industry-recognized credential and college credits.*

Automotives CTE

The Lincoln High School Automotives CTE Program provides students with a strong foundation for those who wish to pursue careers in the field of automotive. Students in our program will have real-world experience, and opportunities to utilize their skill sets for cross-curricular activities along with project-based learning tasks to reinforce acquired knowledge. Students who complete the CTE program graduate with strong technical skills in automotives.

Suggested Sequence	Courses	Length of the Course
Year 1	CP Automotive Technology I	1 Year
Year 2	CP Automotive Technology II	1 Year
Year 3	CP Automotive Technology III *or* CP Automotive Technology Apprenticeship	1 Year 1 Year

- *To be completers of the Automotives CTE program and receive the cord at graduation, students must successfully complete the sequence of courses above, complete at least 80 hours of work-based learning in the related program, and receive industry-recognized credentials.*

Aviation CTE

The Lincoln High School Aviation CTE Program provides students with a strong foundation for those who wish to pursue careers in the field of aviation. Students in our program will have real-world experience, and opportunities to utilize their skill sets for cross-curricular activities along with project-based learning tasks to reinforce acquired knowledge. Students who complete the CTE program graduate with strong technical skills in the field of aviation.

Suggested Sequence	Courses	Length of the Course
Year 1	Science of Flight and Unmanned Aircraft Operations	1 Year
Year 2	Forces of Flight	1 Year
Year 3	Advanced Aeronautics ***or*** Aeronautics Internship	1 Year 1 Year

- *To be **completers** of the Aviation CTE program and receive the cord at graduation, students must successfully complete the sequence of courses above, complete at least 80 hours of work-based learning in the related program, and receive industry-recognized credentials.*

Computer Science CTE

The Lincoln High School Computer Science CTE program prepares students with an opportunity to access an industry that is projected to grow 23 percent from 2022 to 2032, much faster than the average for all occupations.. The program is designed to introduce students to the computer science world by providing a rigorous curriculum from the college board and the University of Rhode Island.

Suggested Sequence	Courses	Length of the course
Year 1	CP Introduction to Computer Science in Javascript (Golden) CP Introduction to Computers and Data (4 Credits - URI)	½ year ½ year
Year 2	AP Computer Science Principles (4 Credits - URI)	1 year
Year 3	AP Computer Science A (4 Credits - URI)	1 year

**Years 2 and 3 can be interchangeable*

- *Students have the opportunity to receive industry credentials and 12 credits from University of Rhode Island for successfully completing CP Intro to Computers and Data, AP Computer Science Principles and AP Computer Science A*
- *To be **completers** of the Computer Science CTE program and receive the cord at graduation, students must successfully complete the sequence of courses above, complete at least 80 hours of work-based learning in the related program, and receive an industry-recognized credential and college credits.*

Culinary Arts CTE

The Lincoln High School Culinary Arts CTE program delivers a rigorous and engaging curriculum to our students with hands-on, work-based learning in a state-of-the-art kitchen. We are consistently adding equipment to our 1,500+ square foot classroom to align with the latest technology and industry trends and standards. Our program will utilize the ProStart Curriculum and students will have the opportunity to strive to achieve a ProStart National Certificate of Achievement. Students will also have the potential to earn certificates in ServSafe Food Handler, ServSafe Allergen, and ServSafe Management.

Sequence	**Courses**	**Length of Course**
Year 1	Food Nutrition 1 Food Nutrition 2	½ Year ½ Year
Year 2	Culinary Practices & ServSafe Management	1 Year
Years 3 & 4	Baking & Pastry Arts Culinary Internship	½ Year 1 year

- *Culinary Arts CTE students will train with the ProStart Curriculum and will have the opportunity to earn ProStart National Certification*
- *To be **completers** of the Culinary Arts CTE program and receive the cord at graduation, students must successfully complete the sequence of courses above, complete at least 80 hours of work-based learning in the related program, and receive an industry-recognized credential and or college credits.*

Design & Engineering CTE

The Lincoln High School Design and Engineering CTE Program is a specialized multi-year learning program that provides students with a combination of the foundational knowledge needed to succeed in a post-secondary engineering program and also career exploration opportunities. While all students will obtain strong written and oral communication skills, the curriculum is project based with hands-on activities that combine math and science skills with real-world problem solving skills. Students also participate in field experiences as part of the program, which partners the school with both industry and post-secondary institution professionals for mentorships, internships, and articulations. Though our engineering classes are open electives, our students earn priority into these classes and additional opportunities, as well as earn an engineering certificate upon graduation.

Upon completion of certain program specific requirements, students are afforded the opportunity to earn valuable industry certifications. They may become SolidWorks CSWA certified, with successful passage of both the Design II course and the CSWA exam.

Students will also be given the opportunity to become IC3 certified after successful completion of the computer engineering course.

Sequence	Courses	Length of Course
Year 1	Introduction To Engineering Design	1 Year
Year 2	Principles of Engineering	1 Year
Year 3	Architectural Engineering	1 Year
Year 4	Design and Engineering Capstone	½ year
Additional required Courses	4 years of math (must include pre-calculus) Chemistry Physics	
Recommended Additional Courses	Fabrication Technology (1 year) Animation 1 (1 year) Robotics (½ year) Animation 2 (1 year)	

- *Students have the opportunity to to receive industry credentials by successfully completing the CSWA Solidworks certification and NOCTI Pre-engineering test.*
- *Students have the opportunity to receive 4 credits from New England Technology by completing Introduction to Engineering Design and Principles of Engineering with a grades of B or better and must complete one quarter at NEIT, and upon submission of an official transcript from Lincoln High School which verifies successful completion of the course. To be eligible for transfer credit, students must begin classes at NEIT within one (1) year of the date of graduation from high school.*
- *Students also have the opportunity to receive 3 credits from CCRI for Principles of Engineering.*
- *To be **completers** of the Design and Engineering CTE program and receive the cord at graduation, students must successfully complete the sequence of courses above, complete at least 80 hours of work-based learning in the related program, and receive an industry-recognized credential and or college credits.*

Graphic Design & Communications CTE

Welcome to the Graphic Design & Communication CTE. This exciting new CTE program gives students opportunities to explore the creative world of graphic design while developing real-world communication skills. Students will learn to create eye-catching designs, work with professional design tools, and express ideas visually for a variety of audiences. Whether interested in branding, advertising, or digital media, this program provides a fun, hands-on way to build skills that prepare students for college, careers, or creative projects of their own! The Graphic Design & Communications program requirements adhere to the RIDE CTE standards for Graphic Designer. All students are required to complete all program elements, and, to complete the program, the following requirements must be met:

- Completion of the CTE coursework sequence below
- Completion of all graduation requirements: ○ required course credits ○ community service○Exhibition
- Completion of 80 hours of work-based learning (embedded within the CTE coursework

Suggested Sequence	Courses	Length of the Course
Years 1 & 2	Graphic Design I	½ Year
	Graphic Design II	½ Year
	Digital Design	½ Year
Years 3 & 4	Capturing and Creating/Photography & Design	½ Year
	Graphic Design Internship	1 Year

- *To be completers of the Graphic Design Communications CTE program and receive the cord at graduation, students must successfully complete the sequence of courses above, complete at least 80 hours of work-based learning in the related program, and receive an industry-recognized credential and college credits.*

International Business CTE

The Lincoln High School International Business CTE program prepares students with an opportunity to access an industry that employs over 10.5 million people each year. The program is designed to introduce students to the Global Business world by providing a rigorous curriculum combined with real-world experience through the use of guest speakers, job shadow and internship opportunities from the industry and relevant field experiences including an opportunity to participate in the Model UN conference held at the United Nations in NYC.

Sequence	Courses	Length of Course
Years 1 & 2	Computers in Management	½ year
	International Business I	½ year
	International Business II	½ year
Year 3	Leadership and Management	1 year
Year 4	Entrepreneurship: Shark Tank *Grade 12	1 year

- *Students have the opportunity to to receive industry credentials by successfully completing Microsoft Office Word Certification,NOCTI--ASK Fundamentals Marketing, and Venture EverFi Certificate*
- *Students have the opportunity to receive 3 credits from Rhode Island College for successfully completing Leadership & Management.*
- *To be **completers** of the International Business CTE program and receive the cord at graduation, students must successfully complete the sequence of courses above, complete at least 80 hours of work-based learning in the related program, and receive an industry-recognized credential and or college credits.*
    - *NOTE: It is highly recommended that students take the IB 1 and IB 2 which are college-level courses after Computers in Management and Marketing*

Journalism & Multimedia Communications CTE

The Lincoln High School Journalism and Multimedia CTE Program provides students with a strong foundation for those who wish to pursue careers in journalism, including broadcast journalism, or communications. The program's curriculum includes all aspects of career components in journalism, such as journalism ethics, news writing and reporting, interview and research skills, layout and design, set and lighting design, and broadcasting technology.

Students who complete the CTE program graduate with strong written and oral communication skills in addition to technical skills in publishing and video production. Thanks to strong partnerships with local colleges/universities and media professionals, students are mentored and guided by journalists in various stages of professional development. Before completing CTE requirements, they also offered the opportunity to take Adobe Certification Exams in programs including, but not limited to, InDesign, Premiere Pro and PhotoShop. These professional certifications demonstrate proficiency in technical knowledge skills.

Sequence	Courses	Length of Course
Year 1	Principles of Journalism ***Students may choose one of the following ½ credit courses over 4 years:** Digital Design, Graphic Design 1, Graphic Design 2, Film Studies, Film Production; Documentary Storytelling for Television, Documentary Storytelling for Podcast	1 Year
Year 2	Journalism and Production and Publication and/or Topics in Journalism	1 Year
Year 3	Journalism Capstone	1 Year

- *Students must complete 3.5-4 credits from the sequence above. Students may take all four journalism courses or three journalism courses and a half-credit course from the list above.*
- *Students gain authentic experience in the journalism and media communication field. Among those experiences are production of a daily morning newscast, news shows, podcasts, documentaries, advertisements and public service campaigns; develop promotional and educational media for the district, promote the school's programs through all media; report live from sporting and other events. Students become proficient in Adobe programs, including but not limited to, Premiere Pro, InDesign, PhotoShop, Audition and Illustrator.*
- *Students have the opportunity to to receive industry credentials by successfully completing the Adobe Premier test and/or NOCTI 1106 Journalism test*
- *Students have the opportunity to receive 5 credits from New England Technology by completing all of the sequence of courses in the CTE program with a grade of B+ or better and submit a portfolio for review and must complete one quarter at NEIT, and upon submission of an official transcript from Lincoln High School which verifies successful completion of the course. To be eligible for transfer credit, students must begin classes at NEIT within one (1) year of the date of graduation from high school.*
- *To be **completers** of the Journalism and Media Communications CTE program and receive the cord at graduation, students must successfully complete the sequence of courses above, complete at least 80 hours of work-based learning in the related program, and receive an industry-recognized credential and or college credits.*

Law & Public Safety CTE

The Lincoln High School Law and Public Safety CTE program prepares students for a career in the Criminal Justice field by providing them with an opportunity to access an industry that employs over 2.9 million people each year. This CTE program offers authentic work-based learning opportunities as well as the opportunity to take the National Law Core Assessment Certification Exam (offered with the Law and Order class only, at no cost to the student). The program is designed to introduce students to the Criminal Justice world by providing a rigorous curriculum combined with real world-experience through the use of guest speakers from the industry and relevant field trips.

Sequence	Courses	Length of Course
Year 1	Criminal Justice	1 Year
Year 2	Forensics **OR** Legal Studies	1 Year
Year 3	Law & Order	1 Year

- *Students have the opportunity to receive 4 credits from New England Technology by completing Criminal Justice with a grade of B or better and must complete one quarter at NEIT, and upon submission of an official transcript from Lincoln High School which verifies successful completion of the Criminal Justice course. To be eligible for transfer credit, students must begin classes at NEIT within one (1) year of the date of graduation from high school.*
- *Students will earn industry credentials through the NOCTI exam (4181) in Criminal Justice.*
- *To be **completers** of the Law and Public Safety CTE program and receive the cord at graduation, students must successfully complete the sequence of courses above, complete at least 80 hours of work-based learning in the related program, and receive an industry-recognized credential and or college credits.*

Marketing CTE

The Lincoln High School Marketing CTE Program provides students with a strong foundation for those who wish to pursue careers in business. Each course is based on the National Business Education Standards; students will take part in design thinking, work with local businesses to generate logos and slogans and a variety of business documents, listen to guest speakers discuss a variety of topics, and have the opportunity to develop their own business based on an approved business and marketing plan. Courses are project-based and scaffolded in such a way that by the end of the CTE, students will pitch their business ideas and support their research to a panel of Shark Tank judges. Students who complete the CTE program graduate with strong technical skills in marketing and leadership. Students will complete their CTE program with proficiency in Microsoft Office Word and Excel.

Suggested Sequence	Courses	Length of the Course
Years 1 & 2	Computers in Management Marketing and Social Media	½ Year 1 Year
Year 3	Leadership and Management	1 Year
Year 4	Entrepreneurship: Shark Tank *Grade 12	1 Year

- *To be **completers** of the Marketing CTE program and receive the cord at graduation, students must successfully complete the sequence of courses above, complete at least 80 hours of work-based learning in the related program, and receive industry-recognized credentials.*