

CCNA curriculum: Introduction to Networks, a full year course. Students will also take the first course of the Oracle Certified Associate, Java 8 Programmer: Alice 3, a semester course.

- Year 2 of the program switches the focus to Windows 7 certification (MSCA): Windows 7 Configuration (70-680). Students will also take the second course in Oracle: Greenfoot, a semester course.

- In the third and final year of the program, students will learn how to Administer Windows Server 2012 (70-410), a full year course. Students will also complete the AP Computer Science A course in Java to complete the Java Certification.

This program will give students in-depth knowledge of these programs giving them valuable skills that allow them to contribute to the Rhode Island workforce immediately.

Warwick Area Career and Tech Center

During the program, students are studying industry-based curriculum to prepare for the CCENT (Cisco Certified Entry Networking Technician) Certification or CCNA (Cisco Certified Networking Associate) Certification upon completion of their coursework.

During their Senior year, students participate in an Internship program where they learn in the industry workplace during class scheduled time. They apply for the Internship, participate in a job interview, complete a resume and cover letter while learning soft skills. Industry guest speakers give classroom presentations as well as field trips to see Industry professionals in the workplace and real-world networks, such as AAA of Southern New England, TF Green Airport, Electric Boat, Schneider Electric, and Atrion. Guest speakers and field trips to college campuses also help guide students in their post-secondary decisions, such as New England Institute of Technology, CCRI - Warwick, and Johnson and Wales. More about the program: The CCNA Routing and Switching curriculum is a gateway to entry-level networking jobs and IT careers. The curriculum consists of 4, 70-hour courses: Introduction to Networks, Routing and Switching Essentials, Scaling Networks, and Connecting Networks. The first 2 courses prepare you for the Cisco CCENT certification exam or to study CCNA Security. All 4 courses are recommended before taking the Cisco CCNA Routing and Switching certification exam.

- Develop a working knowledge of routing, switching, network applications, protocols, and services.
- Study with an instructor in the classroom and access expert content online anytime.
- Practice what you learn on both real equipment and Cisco Packet Tracer, a network configuration simulation tool.
- Get immediate feedback on your work through built-in quizzes and tests.
- Prepare for the workplace with collaborative projects and presentations.
- Connect with the global Cisco Networking Academy community

Academy for Career Exploration

The Academy for Career Exploration (ACE) provides a full college prep curriculum with a focus on technology, design, and IT fundamentals. The program helps students identify interests, skills, and opportunities for smart college preparation and career readiness. ACE envisions a rapidly evolving global work environment in the 21st Century. This environment will require constant learning to keep current with technology and the demands of college and the workplace. Schools must evolve to meet this ever changing need. The Academy for Career Exploration is a small, safe school with a "family" environment. Up to 225 Providence students enroll in the ninth through twelfth grades each year.

Governor Raimondo will visit the Academy for Career Exploration this coming Tuesday, August 2nd, at 10:00 AM. She will meet the 18 Providence Public School District students who have been participating in the Bootstrap Coding Camp at ACE for the past 4 weeks.

The Bootstrap Coding Camp is part of the Governor's CS4RI initiative. We have been providing this program in collaboration with Brown University and under the guidance of Joe Devine, ACE Program Advisory Council member, and friend of ACE. This camp has been included in Mayor Elorza's Summer Learning Initiative.

GirlsGetMath@ICERM: Summer Math Camp for High School Girls

Description This five-day non-residential mathematics program is open to high school girls from the greater Providence, RI area who will have just completed either grade 9 or grade 10 by July 2014.

GirlsGetMath@ICERM will encourage 25 young women to explore, and invite them to excel in, the mathematical

sciences. Accomplished professional women, enthusiastic about serving as career models as well as scientific mentors, will lead the program. Potential topics include: cryptography, the mathematics of voting, image processing, prime numbers and factoring, and fractals. The goals of the program are: to show high school women that the study of mathematics can be exciting, beautiful, and useful to build confidence in students' mathematical knowledge through engaging and expert mathematical instruction to introduce high school students to a variety of career opportunities in which sophisticated mathematical ability plays a key role to emphasize the strategic role mathematics plays for success in STEM careers to provide the participants with a support group and expert mentors who are successful undergraduate, graduate students and professionals from the STEM workforce to have a positive influence on the way students view their mathematical interest and ability. Instructors

The faculty organizers will be joined by undergraduate and graduate women in Mathematics and Computer Science from Brown University who will serve as teaching fellows in the program. Event schedule TBA

The program will take place at ICERM on the Brown University campus in historic Providence, RI. Youth Speakers Bureau If you are an industry professional who wants to share your passion and experience with Rhode Island students, we have the opportunity for you! We are calling for professionals to become part of our Speakers Bureau and spending approximately 45 minutes as needed to discuss career awareness and opportunities with students in their classrooms. This is a high-impact initiative with low obligation, sign up today! [Learn More](#)

Scholarships Congratulations to our 2014 scholarship award winners!

-
Lighthouse Computer Services / Tech Collective Scholarship

\$1,000 scholarship to a student studying IT/CIS/MIS and with an affiliation to one of the five US Military branches.

Congratulations to 2014 scholarship recipient, Hayden Kendall! 2014 graduate of Chariho High School. Hayden will be pursuing a major in Computer Science with Cyber Security and Computer Forensics at the University of Rhode Island. Hayden's grandfather served in the US Army and was honorably discharged.

-
Doug Schwinn / Tech Collective Scholarship

\$2,500 to a female or minority student interested in pursuing a major in the STEM fields.

Congratulations to 2014 scholarship recipient, Antoinette Bongiorno! 2014 graduate of Smithfield High School. Antoinette will be pursuing a major in Mathematics at the University of Rhode Island. Antoinette is also a 2014 recipient of the NCWIT Award for Aspirations in Computing.

2014 Scholarship Recipients

2012 Scholarship Recipients

2011 Scholarship Recipients

2010 Scholarship Recipients

2009 Scholarship Recipient _____

Events and Programs GRRL Tech Tech Collective's GRRL Tech is an interactive technology expo offering female high school students an up-close and engaging look into dynamic and rewarding technology opportunities. Through industry mentoring and hands-on workshops, GRRL Tech aims to encourage STEM learning, break down gender myths and offer career insight into STEM industries. In its more than 10 years of programming, GRRL Tech now welcomes an average of 500+ students annually and has reached over 3,000 high school girls and 500 educators. Funded in part by the Governor's Workforce Board and the Rhode Island Job Development Fund. 2013 GRRL Tech

STEM in the MIDDLE

STEM in the Middle aims to raise girls' awareness and participation in the science, technology, engineering, and mathematics (STEM) fields at the middle school level through a day of hands-on interactive workshops designed and delivered by female industry professionals and faculty. They are then able to ask questions and gain real-world insight during a lunch session. 90 students and eight educators attended the program's inaugural event. Funded in part by the Governor's Workforce Board and the Rhode Island Job Development Fund. 2013 STEM in the Middle

Junior Achievement of Rhode Island

The legacy of Junior Achievement is that all Rhode Island youth be given access to opportunity and success. Junior Achievement is a network of dedicated business and community volunteers sharing their success and real-life skills through JA's hands-on, experiential programs that teach the key concepts of work readiness, entrepreneurship and financial literacy. [Learn More](#)

National Center for Women & Information Technology

NCWIT is a non-profit coalition of over 200 prominent corporations, academic institutions, government agencies, and nonprofits working to improve U.S. innovation, competitiveness, and workforce sustainability by increasing women's participation in IT. NCWIT's work spans K-12 and higher education through industry and academic careers. Tech Collective is the RI NCWIT Co-Affiliate along with Roger Williams University. [Learn More](#)

The Rhode Island STEM Center

The RI STEM Center, located at Rhode Island College, is committed to initiating and facilitating state-of-the-art

professional development, research, and collaborative partnerships among PreK-college educators, teacher candidates, students, and other community stake-holders to advance STEM education. [Learn More](#)

Southern New England Girls Collaborative Project

The Southern New England Collaborative is a part of a nationwide consortium working to interest and inform girls of careers in the high-wage, high-tech and high-demand fields of science, technology, engineering and mathematics (STEM). In bringing together Rhode Island and Massachusetts-based girl-focused programs and organizations, the Collaboration aims to expand upon the knowledge, resources, capacities, and reach needed to increase STEM participation and opportunities. [Learn More.](#)

Rhode Island Cyber Foundations Competition

Established in 2011 and lead by US Congressman Jim Langevin and partnering with Tech Collective, the Rhode Island Science and Technology Council (STAC), and New England Institute of Technology, the goal of the Cyber Foundations Competition is to identify and develop potential talent for the cyber security workforce of the future. Rhode Island is one of three states nationwide to participate in the completion. [Learn More](#)

US FIRST Robotics

FIRST LEGO League (FLL) & FIRST Tech Challenge (FTC)

For students between the ages of 9-14 (FLL) and high school students (FTC) US FIRST robotics program provides students with the opportunity to design, build, and operate robots in statewide and national competition. The programs engage students to explore technology pathways, develop social skills, build community and core values, and foster a stage for future teamwork and success. [Learn More](#)

SkillsUSA Rhode Island SkillsUSA is a partnership of students, teachers, and industry representatives working together to ensure America has a skilled workforce. SkillsUSA helps each student to excel. SkillsUSA is a national organization serving teachers and high school and college students who are preparing for careers in technical, skilled, and service occupations, including health occupations, and for further education. SkillsUSA was formerly known as VICA (the Vocational Industrial Clubs of America. 2013 Student Biotech Competition [The Sophia Academy](#)

Sophia Academy is a non-denominational, private, non-profit gender-specific middle school for girls, grades 5-8, from low-income families in Providence. Their goal is to make academics relevant and alive through the accomplishments of women throughout history. Connections are made for the girls, not only through language arts and social studies, but through all four core subject areas – language arts, math, science, and social studies. Tech Collective works with the Sophia Academy to provide industry speakers, mentors, and hands-on STEM workshops for students. [Learn More](#)

Rhode Island EPSCoR

Rhode Island's Experimental Program to Stimulate Competitive Research (EPSCoR) conducts groundbreaking research and develops academic talent in the science and technology fields to increase competitiveness in research and development, build a more capable workforce and fuel economic growth in the Ocean State. [Learn More](#)

University of Rhode Island SMILE Program

The SMILE Program is an after school academic enrichment program for students in fourth through twelfth grades. The SMILE Program aims to increase the numbers of underrepresented and other educationally underserved students who graduate high school well prepared to enter higher education and pursue careers in science, math, engineering, and technology (STEM). [Learn More](#)

Academies of Information Technology

Partnering with the National Academy Foundation, the Rhode Island Academies of IT is a four-year program engaging high school students in the high tech and high demand technology areas. To meet the growing demand for core IT workers in Rhode Island and across the country, the academy model integrates math and language arts curriculums as well as technical lessons and career awareness and exploration activities. IT industry professionals are often engaged by Tech Collective to speak in classrooms or provide company tours, giving the students a better understanding and feel of the industry they are interested in entering.

Rhode Island Biotech Academies

Initially established by the Rhode Island Department of Education, Tech Collective works with the Biotech Academies across six Rhode Island high school and career and technical centers to engage and educate high school students in the diverse bioscience fields. The three-year program provides STEM education and industry awareness to prepare students for a career in the Bioscience industry. Tech Collective works with the Academies to provide industry speakers, company tours, teacher externships, and other educational opportunities.

Additional Resources

- [Youthworks 411](#) - 11 Rhode Island youth workforce development system centers statewide offering expert assistance in researching careers, seeking out work experience and planning for the future.

-

[Engineer Your Life](#) - A guide to engineering careers for high school girls. This interactive site highlights engineering careers, showcases professional women real-life engineering careers, offer guidance on how to find your dream job and attain it.

-

Information on Careers & Education - EmployRI website provides job and education and training opportunities, as well as Labor Market Information (LMI)

-

College and Career Planning - Whether you're exploring careers or colleges or have found the career you want to pursue but don't know where to start, WaytogoRI.org is the place for Rhode Island students to go.

[Speakers Bureau](#) | [Scholarships](#) | [Events and Programs](#) | [Additional Resources](#)