

By the numbers ...

Surveying jobs in Rhode Island are expected to **increase** in demand by **16.2 percent** by 2014, above the 10.7 percent growth rate for all industries in the state.

The median wage for surveyors in Rhode Island is **\$22.90 per hour**.

Some **479 firms** in Rhode Island are involved in architectural and engineering services, employing an average of **3,383 workers**.

Civil engineering jobs are expected to increase by **17.1 percent** by 2014, with **98** open positions each year at a **median wage of \$31.52 per hour**. CCRI land surveying program graduates can transfer to URI's civil engineering bachelor's program.

Source: R.I. Department of Labor and Training

Other career opportunities

With your CCRI degree in land surveying, careers in other fields await you, such as:

Private sector

- Civil engineering
- Landscape architecture
- Construction
 - Clerk of the works
 - Inspectors
 - Construction layout
 - Estimating

Government

- Planning
- Zoning
- Building inspection
- Public works
- Engineering
- Tax assessor
- GIS

For more information, go to www.ccri.edu/engtl/ or call the Engineering & Technology Dept. at 401-825-2156



There are plenty of services available to help you get the most out of your time at CCRI.

Advising and Counseling

CCRI's Office of Advising and Counseling offers a full range of academic advising, career, educational and personal counseling services. Counselors also assist students with transfer planning to ensure a smooth transition to four-year institutions.

Career Placement

The Cooperative Education and Career Placement Office provides graduates and potential graduates with assistance in résumé writing, interviewing skills and job search strategies. A computerized job bank maintains listings of full- and part-time job openings.

Student Success Centers

Success Centers help students who seek to develop their study habits, improve their grades or learn more about how their academic work affects their career plans. Programs and services include reading, writing and math assistance, and access to computers and software.

Clubs and Groups

Students are invited to join some of the dozens of clubs for varying interests, from the Music Club to the Canoe Club, and academic-based clubs such as the Engineering Student Association.

Athletics and Recreation

CCRI is home to one of Rhode Island's most successful intercollegiate athletic programs, including several that are nationally ranked. Additionally, the intramural and physical education program provides every student with the opportunity to engage in some form of wellness and recreation.



Engineering & Technology Department

Land Surveying

associate degree in applied science



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COMMUNITY COLLEGE OF RHODE ISLAND

Wherever there are roads, dams, retaining walls, bridges or residential areas to be built, there are surveyors. Their work is used to establish land maps and boundaries for ownership or governmental purposes. They also provide data for geographical information systems and computer databases that contain data on land features and boundaries.

Surveying is the measurement of dimensional relationships among points, lines and physical features on or near the Earth's surface. It determines horizontal distances, elevation differences, directions and angles, which then can be used to compute areas and volumes and to establish locations in relation to a coordinate system. Surveyors use elements of geometry, engineering, trigonometry, mathematics, physics and law in their work.

The Community College of Rhode Island's Land Surveying Technology program leads to an Associate in Applied Science degree, which is all you need to begin your land surveying career. Students also have the option of transferring into the University of Rhode Island's civil engineering program.



Land Surveying Program Requirements

General Education Requirements: 28 credits

ENGL-2100	Technical Writing
SPCH-1100	Oral Communications
MATH-1700	Algebra for Technology
MATH-1710	Trigonometry for Technology
GEOL-1010	General Geology I
COMI-1100	Introduction to Computers
Elective	Liberal Arts*
Elective	Science*
Elective	Social Science*

Major Requirements: 33 credits

ENGR-1030	Engineering Graphics
ENGT-1060	AutoCAD Basics
ENGT-1070	AutoCAD Advanced
CVE-240***	Geomatics (Land Surveying I)
CVE-241***	Geomatics Lab
ENGT-**	Land Surveying II
ENGT-1410	CAD for Surveyors
MATH-1670	Quantitative Business Analysis
LAWS-2050	Law of Contracts
LAWS-2060	Law of Property, Estates, & Trusts
MATH-1550	Statistical Analysis I
PHYS-1050*	Physics for Technology I

* Students considering transfer to URI's bachelor's degree program in civil engineering upon graduation from CCRI are encouraged to follow a calculus MATH sequence including MATH-1900, 1910, 1920, 2910 in place of MATH 1700, 1710, 1670.

In addition, the following course choices will maximize transferability of credits to URI (see also www.uri.edu/catalog/), or consult with a CCRI advisor:

Liberal Arts Elective: Choose from Letters or Fine Arts/Literature

Science Elective: CHEM-1030 General Chemistry I

Social Science Elective: ECON-2030 Principles of Microeconomics

Physics: Also, students planning to transfer should substitute PHYS-1100 Engineering Physics for PHYS-1050.

** New course to be developed.

*** URI class to be taken on the Kingston Campus of URI

**For more information,
call 825-2156**