

### For more information about the courses

Please call **(206) 546-4543** if you have questions about the content of any of the courses described in this brochure.

### About the Biotechnology Program at Shoreline Community College

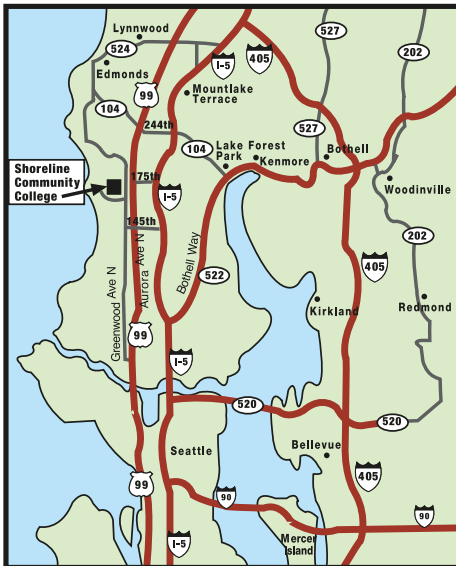
Shoreline Community College offers an associate's degree and certificate in biotechnology. The laboratories at the college provide hands-on training opportunities in the latest biomedical and biotechnology techniques.

### About the instructors

Every instructor in the program is a professional now working in the biotechnology/biomedical industry – or a college instructor teaching biotechnology/biomedical courses – or both.

### How to get to the classes

All classes are held at Shoreline Community College, conveniently located at 16101 Greenwood Ave. N., just 10 miles north of downtown Seattle.



CE-081004

**Shoreline**  
COMMUNITY COLLEGE  
16101 Greenwood Ave. N.  
Shoreline, WA 98133-5696

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# Upgrade Training

for Biotechnology/Biomedical  
Industry Employees

**2004-2005**



<http://www.shoreline.edu/ce>

Choose from 6 fast, affordable  
**SHORT COURSES** on topics  
ranging from Bioinformatics  
to HPLC

**Shoreline**  
COMMUNITY COLLEGE

**FOURTH YEAR!****Biotech Upgrade Training Classes**

This series of short courses is designed for students who are currently working in the biotech/ biomedical industry and need additional training to enhance work performance, achieve personal career goals or advance their company's business objectives. **Offered on the Shoreline Community College campus**, the series provides fast, efficient and thorough training in a broad range of subjects.

The courses were developed by a consortium of biotech and biomedical industry representatives, convened by Shoreline Community College and the Puget Sound Center.

**To register online:** <http://www.shoreline.edu/ce>

**To register by phone:** (206) 533-6700

**To register by fax:** (206) 306-1117

**E-mail contact:** [continuinged@shoreline.edu](mailto:continuinged@shoreline.edu)

**For information about course content, prerequisite skills and instructors please visit:**

<http://www.shoreline.edu/biotech> and click on

**biotech upgrade short courses**

**or call (206) 546-4543.**

**Flow Cytometry**

Course presents the theory of flow cytometry and instrumentation. It provides participants with hands-on laboratory experience using a flow cytometer. Course topics include sample preparation, sample analysis, data collection and data analysis, use of current software for collection, and the analysis and presentation of data.

**Item #7344 28 hours Rm. 2930 \$825**

M, W Oct 4, 6, 11, 13, 18, 20, 25, 27, 2004 or Feb 28; Mar 2, 7, 9, 14, 16, 21, 23, 2005 5:30-9:00pm Sherree Friend

**High Performance Liquid Chromatography: Intermediate Level**

This course will examine HPLC theory and instrumentation and provide the trainee with hands-on laboratory experience to complete assigned projects. Participants will learn to troubleshoot problems, use software, analyze data and present results.

**Item #7346 28 hours Rm. 2717 \$825**

T, Th Oct 5, 7, 12, 14, 19, 21, 26, 28, 2004 or Apr 5, 7, 12, 14, 19, 21, 26, 28, 2005 5:30-9:00pm Mike Lindholm

**Applied Math for Biotechnology**

This course will provide a review of equations used for media and solution preparation. Covered topics include units, unit conversions, terminology, significant figures, exponents, scientific notation, logarithms, percents, concentration, dilution, statistical analysis and data presentation.

**Item #7347 18 hours Rm. 2929 \$260**

M Jan 10, 17, 24, 31, Feb 7, 14, 2005 6:30-9:00pm Amy Springer

**Functional Genomics and Applications for Bioinformatics NEW CLASS!**

This course will cover topics related to how research in biology has been affected by the sequencing of whole organisms. We will introduce various different research-oriented databases resulting from large scale DNA sequencing projects, as well as related sites like NCBI, derived from publicly funded research. Secondly, we will discuss functional genomics and proteomics and how these experiments are designed to integrate databases with new scientific results.

**Item #7348 28 hours Rm. 2930 \$825**

M, W Jan 17, 19, 24, 26, 31, Feb 2, 7, 9, 2005 5:30-9:00pm Dave Baldwin

**Plant and Animal Tissue Culture**

This course will investigate the fundamentals of cell and tissue culture in animal and plant systems, with emphasis on practice and troubleshooting. Participants will become familiar with sterile technique and media preparation. Covered topics include transformation and regeneration of plants from culture. In animal cell culture, topics include subculture and viability staining.

**Item #7349 17.5 hours Rm. 2929 \$375**

M, W Jan 17, 19, 24, 26, 31, Feb 2, 7, 2005 6:30-9:00pm John Wiselery

**Bioinformatics**

This course provides an introduction to the major databases and tools to include GenBank, dbSNP, OMIM, PubMed, Genomes and COGs, and the tools for querying these databases such as BLAST, Entrez, COGNITOR, and Cn3D. For biologists or as an introduction for software engineers.

**Item #7350 24 hours Rm. 2930 \$480**

M, W Apr 4, 6, 11, 13, 18, 20, 25, 27, 2005 6:15-9:15pm Sandra Porter