Career Opportunities in Biotechnology
These are exciting times for careers in biotechnology, which uses technology and biology to solve some of today’s most urgent medical, societal and scientific issues. Nearly every day amazing biotechnology discoveries and inventive products are entering the market. New applications and job opportunities are developing, and the growing industry is being recognized at an unprecedented level, both locally and globally. New York State Education Department recently estimated that biotechnology will add 20,000 new jobs per year, and biotechnology has been targeted for development by 40 state governments that have introduced a number of economic incentives.

There is a high demand for qualified biotechnicians. The U.S. biotechnology industry employed 1.4 million people in 2005 and demand is expected to remain high well into the future as new technologies are developed. As technology advances, it becomes imperative to provide more qualified biotechnology personnel.

The Benefits of a Degree from Genesee
The Biotechnology program at Genesee prepares you for immediate employment as a biotechnician in research laboratories in universities, as well as pharmaceutical or food processing companies. After completing your A.S. degree, you have the option of transferring to a four-year college or university to pursue a baccalaureate degree in biotechnology. Genesee’s program was designed in cooperation with the biotechnology departments at several four-year colleges and universities in New York State.

Facilities
The learning facilities of Genesee Community College are among the best in the country. Biotechnology students appreciate the 45 smart classrooms, six distance learning labs, 29 computer labs, and the state-of-the-art Alfred C. O’Connell Library with Internet-based research capabilities. Genesee provides a dynamic Student Support Services division, the Career Center, the Center for Academic Progress, and a child care center in addition to an exciting sports program featuring ten intercollegiate athletic teams. College Village offers apartment-style student housing adjacent to the Batavia campus.
Curriculum

Academic disciplines include biology, biotechnology, genetics, microbiology, molecular and cell biology, and general and organic chemistry. These courses provide an ideal foundation in biotechnology to operate effectively in the industry.

COURSE LISTING:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Biology 1 and 2</td>
<td>8</td>
</tr>
<tr>
<td>Intro to Biotechnology</td>
<td>1</td>
</tr>
<tr>
<td>Genetics with lab</td>
<td>4</td>
</tr>
<tr>
<td>Microbiology with lab</td>
<td>4</td>
</tr>
<tr>
<td>Molecular &amp; Cell Biology with lab</td>
<td>4</td>
</tr>
<tr>
<td>General Chemistry 1 and 2 with lab</td>
<td>8</td>
</tr>
<tr>
<td>Organic Chemistry 1 and 2 with lab</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>37</strong></td>
</tr>
</tbody>
</table>

Courses

Genesee's biotechnology faculty members apply their extensive scientific and technological experience to guide students through the curriculum. Small class sizes accommodate a greater level of learning and individual instruction. Students will learn about bacteriological methods and cell tissue and cultures, they will use electrophoresis equipment, and understand the workings of a genetic laboratory and research techniques used everyday in biotechnology. They also will delve into computer technology, which is an important part of the biotechnology industry.

Genesee’s A.S. degree program ensures that students will complete many of their four-year general education requirements with courses in communications, history, humanities, social science, and math. It provides the foundation for students looking to transfer to a four-year institution with six biology courses and four chemistry courses.

About Genesee Community College

Founded in 1966, Genesee has seven campus locations serving a 2,500-square mile region in the Western New York counties of Genesee, Livingston, Orleans, and Wyoming. It is recognized for its small class size, personal attention and cutting-edge technology applied to the teaching and learning experience.

Faculty

**DR. TONG CHENG**
*Instructor of Biology and Biotechnology*

As the principal faculty member in Genesee’s Biotechnology program, Dr. Cheng holds B.S. and M.S. degrees from Wuhan University and a Ph.D. degree from the University of Illinois at Chicago.

Dr. Cheng has taught at Nazareth College, the University of Rochester, and at Wuhan University in China.

Transfer Opportunities

Genesee Community College has transfer agreements with several area public and private four-year institutions including:

- Rochester Institute of Technology
- SUNY Brockport
- SUNY Cobleskill
- SUNY University at Buffalo

These and other four-year institutions accept **ALL** the credits earned at Genesee.

Find Out More

Admission into Genesee’s Biotechnology program is open to all high school graduates and GED recipients. No specific preparation is required. For additional information, call the Admissions Office at (585) 343-6800 or go to [www.genesee.edu](http://www.genesee.edu). You also may contact our Biotechnology faculty directly:

**DR. TONG CHENG**
*Instructor of Biology and Biotechnology*

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