

## GENETICS AND BIOENGINEERING

### Elective Courses

<b>Elective Courses for <u>Field of Genetics</u></b>	<b>Elective Courses <u>Field of Bioengineering</u></b>
<ul style="list-style-type: none"> <li>• Molecular Cell Biology</li> </ul>	<ul style="list-style-type: none"> <li>• Cellular and Molecular Engineering</li> </ul>
<ul style="list-style-type: none"> <li>• Bioterrorism</li> </ul>	<ul style="list-style-type: none"> <li>• Purification Techniques of Biomolecules</li> </ul>
<ul style="list-style-type: none"> <li>• Genetic Testing and Counseling</li> </ul>	<ul style="list-style-type: none"> <li>• Integration of Computational and Experimental Biology</li> </ul>
<ul style="list-style-type: none"> <li>• Molecular Principles of Virology</li> </ul>	<ul style="list-style-type: none"> <li>• Biomedical Telemetry</li> </ul>
<ul style="list-style-type: none"> <li>• Purification Techniques Of Biomolecules</li> </ul>	<ul style="list-style-type: none"> <li>• GMO (Genetically Modified Organisms)</li> </ul>
<ul style="list-style-type: none"> <li>• Integration Of Computational and Experimental Biology</li> </ul>	<ul style="list-style-type: none"> <li>• Advanced Topics in Bioengineering</li> </ul>
<ul style="list-style-type: none"> <li>• Nucleic Acid and Protein Chemistry</li> </ul>	<ul style="list-style-type: none"> <li>• Advanced Topics in Bioinformatics</li> </ul>
<ul style="list-style-type: none"> <li>• Genetic Markers</li> </ul>	<ul style="list-style-type: none"> <li>• Systems Neurogenetics</li> </ul>
<ul style="list-style-type: none"> <li>• Genetic Diversity</li> </ul>	<ul style="list-style-type: none"> <li>• Pharmacogenomics and Gene Therapy</li> </ul>
<ul style="list-style-type: none"> <li>• GMO (Genetically Modified Organisms)</li> </ul>	<ul style="list-style-type: none"> <li>• Omics Technology</li> </ul>
<ul style="list-style-type: none"> <li>• Microbial Genetics</li> </ul>	<ul style="list-style-type: none"> <li>• Ethics and Public Policy in Bioengineering</li> </ul>
<ul style="list-style-type: none"> <li>• Advanced Topics in Bioinformatics</li> </ul>	<ul style="list-style-type: none"> <li>• Nanotechnology and Nanosensors</li> </ul>
<ul style="list-style-type: none"> <li>• Cancer Biology</li> </ul>	<ul style="list-style-type: none"> <li>• Laboratory Quality Management Systems</li> </ul>
<ul style="list-style-type: none"> <li>• Systems Neurogenetics</li> </ul>	<ul style="list-style-type: none"> <li>• Biomedical Data and Analysis</li> </ul>
<ul style="list-style-type: none"> <li>• Developmental Biology</li> </ul>	<ul style="list-style-type: none"> <li>• Biomedical Instrumentation and Measurement</li> </ul>
<ul style="list-style-type: none"> <li>• Pharmacogenomics and Gene Therapy</li> </ul>	<ul style="list-style-type: none"> <li>• Medical Imaging and Image Processing</li> </ul>
<ul style="list-style-type: none"> <li>• Molecular Anthropology</li> </ul>	<ul style="list-style-type: none"> <li>• Biomaterials and Artificial Organs</li> </ul>
<ul style="list-style-type: none"> <li>• Stem Cells</li> </ul>	<ul style="list-style-type: none"> <li>• Systems Anatomy and Physiology</li> </ul>
<ul style="list-style-type: none"> <li>• Techniques in Molecular Biology</li> </ul>	<ul style="list-style-type: none"> <li>• Scientific Research Methods in Biomedical Engineering</li> </ul>
<ul style="list-style-type: none"> <li>• Laboratory Quality Management Systems</li> </ul>	