



<b>Course Number</b> <b>Course Name</b>	<b>BIOL 425 MOLECULAR GENETICS</b>
<b>Credit Value</b> <b>(Breakdown of theory and lab credits)</b>	3 Theory
<b>Catalog Course Description</b>	You will study the molecular biology of the gene, including chromosome structure, DNA replication and repair, RNA transcription and translation and the control of these processes, and techniques used to study these processes. <i>Prerequisite:</i> BIOL 329.
<b>Student Learning Outcomes/Objectives /Competencies of the Course</b>	<ol style="list-style-type: none"> <li>1. Understand the molecular basis for transcription, translation, replication, and gene regulation and other topics in molecular genetics for both prokaryotes and eukaryotes</li> <li>2. Understand the underlying theoretical principles of the scientific methods and approaches of molecular genetics</li> <li>3. Able to critically interpret experimental designs related to molecular genetics</li> <li>4. Acquire an appreciation for the impact of molecular genetics (particularly of human) in physiology, evolution, and disease</li> </ol>
<b>College-Wide Student Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. <i>Critical Thought</i> <i>Critical Thought will be assessed by testing of concepts related to Molecular Genetics.</i></li> </ol>