

ISU COLLEGE CHALLENGE COURSE DETAILS

BIOL 101/101L	*Principles of Biology I with LAB	Total Credits: 4 Prerequisites: NONE
<p>An introductory course dealing with the unifying fundamentals of life, with emphasis on development, evolution, environmental biology, and survey of the animals. Laboratory exercises supporting concepts presented in Life Sciences 101.</p>		
BIOL 102/102L	*Principles of Biology II with LAB	Total Credits: 4 Prerequisites: CHEM 105 and 105L
<p>A continuation of 101, with emphasis on cell and organismic physiology and survey of plants. Laboratory exercises supporting concepts presented in Life Sciences 102.</p>		
CHEM 105/105L	*General Chemistry I with LAB	Total Credits: 4 Prerequisites: NONE
<p>Topics include atomic structure, physical properties of gases, nomenclature, molecular bonding and geometry, mass relationships in chemical equations, and thermochemistry. Because the course assumes adequate knowledge of algebra, the following is strongly recommended: prior completion or current enrollment in Mathematics 115 or higher, or a mathematics SAT score of 510 or higher, or an ACT score of at least 21. A weekly three-hour series of experiments designed to illustrate lecture topics from 105 and to develop laboratory techniques.</p>		
CHEM 106/106L	*General Chemistry II with LAB	Total Credits: 4 Prerequisites: CHEM 105 and 105L
<p>Continuation of CHEM 105/105L with chemical kinetics, elementary thermodynamics, aqueous equilibria, electrochemistry, and physical properties of solids, liquids, and solutions. A series of experiments designed to illustrate lecture topics from 106 and qualitative analysis.</p>		
COMM 101	*Introduction to Speech Communications	Total Credits: 3 Prerequisites: NONE
<p>Basic principles and practices of oral communication.</p>		
ECON 200	*Principles of Macroeconomics	Total Credits: 3 Prerequisites: NONE
<p>Presents the essential features of the field of macroeconomics to convey an understanding of how a market economy functions at the aggregate level. Major elements include: national income accounting, unemployment, inflation, investment, aggregate demand and supply, the monetary system, stabilization policy, economic growth, and international trade.</p>		
ECON 201	*Principles of Microeconomics	Total Credits: 3 Prerequisites: NONE
<p>Presents the essential features of the field of microeconomics to explain the nature and function of markets, and the behavior of households and firms in the market context. Major elements include: opportunity cost, supply and demand analysis, consumer theory, theory of the firm, and market structure.</p>		
ENG 105	*Freshman Writing II	Total Credits: 3 Prerequisites: NONE

Writing documented papers synthesizing information from several different sources, with emphasis on reading and writing as processes of discovery in thinking critically.		
HIST 201	*The Unites States to 1877	Total Credits: 3 Prerequisites: NONE
The discovery, exploration, settlement, and growth of the United States through Reconstruction.		
HIST 202	*The Unites States since 1865	Total Credits: 3 Prerequisites: NONE
The political, economic, diplomatic, intellectual, and cultural development of modern America.		
MATH 102	*Quantitative Literacy	Total Credits: 3 Prerequisites: Appropriate Placement Score or MATH 011
Interpret formulas, graphs, and tables to draw inferences from them. Represent mathematical information symbolically, visually, numerically, and verbally. Use arithmetic, algebraic, geometric, statistical, and financial computational methods to solve problems. Determine reasonableness of answers and select optimal results. Recognize mathematical and statistical limits of methods.		
MATH 115	College Algebra	Total Credits: 3 Prerequisites: Appropriate Placement Score or MATH 099
Functions including polynomial, rational, exponential, and logarithmic and their graphs including translations, reflections, and symmetry. Systems of equations.		
MUS 233	*Music Appreciation	Total Credits: 3 Prerequisites: NONE
A history of the music of Western civilization, stressing the art of listening, with discussions of prominent composers, their works, and their styles.		
PHYS 105/105L	*General Physics I with LAB	Total Credits: 4 Prerequisites: NONE
An algebra-based introduction to physics with applications to other scientific disciplines. Topics include vectors, Newton's laws of motion in one and two dimensions, work and energy, momentum and collisions, and wave motion. This course requires proficiency in intermediate algebra; prior completion of Mathematics 115 or higher is strongly recommended.		
PHYS 106/106L	*General Physics II with LAB	Total Credits: 4 Prerequisites: PHYS 105 and 105L
The course is the sequential continuation of 105. The topics include electricity and magnetism, optics, relativity, and atomic and nuclear physics.		
PSCI 201	*Introduction to American Politics	Total Credits: 3 Prerequisites: NONE
An introduction to national government and politics in the United States, emphasizing the basic institutions of the American federal system, the basic political behavior of the American people, and the public policy-making process at the national level.		

**Courses marked with an asterisk are part of the "Transfer Indiana" [TransferIN] initiative. For additional information, link to www.transferin.net/ctl.*