

**Tor Academy
New Course List**

- 1. Basic Concepts in College Math (Math 103): In the lower division baccalaureate/associate degree category, 4 semester hours in Mathematics, Business, Marketing, or Finance (3/16).**
- 2. Understanding Mathematics (Math 102): In the lower division baccalaureate/associate degree category, 4 semester hours in Mathematics, Business, Marketing, or Finance (3/16).**
- 3. College Algebra (Math 101): In the lower division baccalaureate/associate degree category, 4 semester hours in Mathematics, Business, Marketing, or Finance (3/16).**
- 4. English Composition I (ENG 101): In the lower division baccalaureate/associate degree category, 3 semester hours in English (3/16).**
- 5. English Composition II (ENG 102): In the lower division baccalaureate/associate degree category, 3 semester hours in English (3/16).**
- 6. Information Literacy (ENG 103): In the lower division baccalaureate/associate degree category, 3 semester hours in English (3/16).**
- 7. Introduction to Biology (SCI 101): In the lower division baccalaureate/associate degree category, 4 semester hours in Biology or general science (3/16).**
- 8. Introduction to Psychology (Psychology 101): In the lower division baccalaureate/associate degree category, 3 semester hours in Psychology, General Education, or Social Science (3/16).**
- 9. Introduction to Sociology (Sociology 101): In the lower division baccalaureate/associate degree category, 3 semester hours in Sociology, Social Science, or Behavioral Science (3/16).**
- 10. Principles of Earth Science (SCI 102): In the lower division baccalaureate/associate degree category, 4 semester hours in Earth Science (3/16).**
- 11. Sociology of Racial and Ethnic Groups (Sociology 320): In the lower division baccalaureate/associate degree category, 4 semester hours in Earth Science (3/16).**
- 12. Studying Social Problems (Sociology 330): In the lower division baccalaureate/associate degree category, 3 semester hours in Sociology, Social Sciences, Behavioral Sciences, or as a Social Work elective (3/16).**

13. The Science of Nutrition (SCI-101) In the lower division associate/baccalaureate degree category, 3 semester hours in Nutrition or as college core science requirement (11/13).

14. Introduction to Public Speaking (COM-101) In the lower division associate/baccalaureate degree category, 3 semester hours in Communications (6/13).

English Composition I (ENG 101)

Location:

Jerusalem, Israel and other approved locations.

Learner Outcomes:

Upon successful completion of the exam, students will be able to: express their thoughts and opinions in writing about a variety of subjects in a structured and organized way; write accurate simple and compound sentences using the grammatical structures studied in the course to their own writing; use critical and logical methods of thinking to demonstrate skills in inductive, deductive, and analogous reasoning; move from a general idea to specific topic; explain the seriousness of violating the principles of plagiarism and become thoroughly knowledgeable in source documentation using the MLA format; communicate effectively through reading and writing; generate ideas and prepare to write using simple prewriting strategies using the information obtained through source readings; identify and focus on a particular essay topic; conduct research in an honest and skillful manner, building coherent paragraphs and observing grammatical conventions; and respond critically after synthesizing information from source readings.

Credit recommendation:

In the lower division baccalaureate/associate degree category, 3 semester hours in English (3/16).

English Composition II (ENG 102)

Learner Outcomes:

Upon successful completion of the exam, students will be able to: interpret literary texts discussing themes and conflicts and expressing their own personal ideas and opinions about these texts; identify and organize a written analysis of different literary modes that they encounter, for example: compare/contrast, distinguish different perspectives; sequence; identify and assess any cultural,

political, or philosophical intents of the author; write clearly and effectively through analysis of different modes and models of literature; write an essay using various rhetorical modes in English using different expository approaches such as comparison/contrast and argumentation; identify the theme of a literary piece as well as other literary elements; effectively read a piece and analyze its components in order to write a thoughtful analytical essay of that particular piece; address opposing viewpoints using evidence from the text itself as supports; write and in-depth research paper on a particular piece identifying a thesis and supporting it with evidence from the text itself as well as other written sources on that particular piece or author; recognize various forms of plagiarism; and correctly use the MLA format and its specific requirements for citing references.

Credit recommendation:

In the lower division baccalaureate/associate degree category, 3 semester hours in English (3/16).

Information Literacy (ENG 103)

Location:

Jerusalem and other approved locations.

Learner Outcomes:

Upon successful completion of this proficiency examination, students will be able to: access, evaluate and use information in an academic or work environment; research efficiently and find relevant information by developing appropriate research questions and using library resources as well as other sources; effectively access information electronically and be able to identify and evaluate information found on the internet; make an assessment of different aspects research sources including currency, relevancy, authority, and accuracy; help others who do not possess the same information-literacy skills to access information; organize information effectively and ethically; and utilize various methods which take into account different formats and audiences in order to share what has been learned through research.

Credit recommendation:

In the lower division baccalaureate/associate degree category, 3 semester hours in English (3/16).

MATH

Basic Concepts in Mathematics (MAT 103)

Learner Outcomes:

Upon successful completion of the exam, students will be able to: identify examples of the pervasiveness and importance of mathematics in the world around them; investigate challenging

applied problems found in disciplines such as biology, ecology and finance; understand the fundamental ideas in descriptive statistics and recognize how statistics can be used and misused; think critically about real-world problems and be a more critical consumer of information; transfer real world information into a mathematical model accurately use problem-solving techniques, logical reasoning, algorithms and/or theorems to produce correct and useful results; apply analytical, numeric, descriptive, and graphical representations to aid in problem-solving; use technology effectively (including the Microsoft Excel) to experiment, solve problems, create and interpret graphs, and verify results; collaborate responsibly and productively; and clearly communicate mathematical findings in writing and through oral presentations.

Instruction:

Basic Concepts in Mathematics covers elementary mathematical ideas in order in order to gain a better appreciation and broader view of what mathematics is all about. The exam will assess students' problem solving and critical thinking skills in applying a number of applications of mathematics to real world problems. Major topics include: the mathematics of Voting, Sharing, Apportionment, Logistics, Touring, Spiral Growth in Nature, Money, Symmetry, Statistics, and Normal Distribution.

Credit recommendation:

In the lower division baccalaureate/associate degree category, **4 semester hours in Mathematics, Business, Marketing, or Finance (3/16).**

College Algebra (MAT 101)

Learner Outcomes:

Upon successful completion of the exam, students will be able to: identify the properties of functions, which include domain and range, operations, compositions, and inverses; identify, interpret, and solve problems of various types of functions and their graphs, including but not limited to linear, quadratic, polynomial, rational, exponential, and logarithmic functions; apply graphing techniques for various functions; identify and develop basic sequences and series; solve systems of equations with various methods including elimination, substitution, and matrices.

Instruction:

College Algebra covers the foundations of Algebra expressed in the applications of quadratics, polynomial, rational, exponential and logarithmic functions, and systems of equations. The exam assesses students' problem solving skills and knowledge relating to functions and requires them to identify, interpret, and solve problems of various types of functions and their graphs, apply graphing techniques for various functions, identify sequences and series, and solve systems of equations with various methods including elimination, substitution, and matrices.

Credit recommendation:

In the lower division baccalaureate/associate degree category, **4 semester hours in Mathematics, Business, Marketing, or Economics (3/16).**

Understanding Mathematics (MAT 102)

Learner Outcomes:

Upon successful completion of this proficiency examination, students will be able to: construct and analyze logical arguments based on the rules of inference; define financial management and compound interest; correctly use statistical reasoning and proficient in the use of statistical graphs and tables; correctly determine correlation and causality; explain the concept of data distribution and determine measures of variations; define the fundamentals of mathematical modeling and how they represent exponential growth, doubling-time, and half-life; and demonstrate proficiency in linear and quadratic modeling.

Instruction:

Understanding Mathematics deals with the use of mathematics to model change in the real world. The topics covered in the exam include ratios, percentages, averages, estimation, and financial mathematics. The exam assesses students' skills in analyzing linear and exponential models of growth, basic geometric measurements and scaling, logical arguments based on the rules of inference, basic financial management and compound interest. Other topics are: statistical reasoning, statistical graphs and tables, data distribution, mathematical modeling, exponential growth, and linear and quadratic modeling.

Credit recommendation:

In the lower division baccalaureate/associate degree category, **4 semester hours in Business, Marketing, or Finance (3/16).**

Introduction to Biology (SCI 101)

Learner Outcomes:

Upon successful completion of the proficiency examination, students will be able to: evaluate how the basic units of matter interact to produce the complex macromolecules that imbue living systems with the many properties that constitute the living state; interpret the scientific basis for declaring the cell as the basic unit of life; understand the scientific method and develop critical thinking in seeking to solve problems; analyze the nature of the different processes involved in cell metabolism, cellular respiration, fermentation and photosynthesis; describe the processes of the cell cycle, genetics, meiosis, the chromosomal basis of Inheritance, the molecular basis of inheritance from gene to protein, and the regulation of gene expression; describe the life processes carried out by plant and animal life forms as well as human biological processes and evaluate the different forms of ecology and ecosystems and how they apply to life on planet.

Instruction:

Introduction to Biology broadly covers the core concepts in Biology emphasizing a familiarity with the vocabulary and concepts relating to structures and functions of life forms. The exam covers the major areas of Biology, along with assessing students' knowledge of basic subject matter including: cell structure and physiology, metabolism, cellular reproduction, Mendelian genetics, modern genetics, and genetic engineering, life processes, nutrition, respiration, circulation, excretion and regulation and the maintenance of homeostasis.

Credit recommendation:

In the lower division baccalaureate/associate degree category, 4 semester hours in Biology or general science (3/16).

Principles of Earth Science (SCI 102)

Learner Outcomes:

Upon successful completion of the proficiency examination, students will be able to: describe the Earth's interior and exterior structure; identify the composition of indigenous rocks and minerals; explain how weather and erosion affect the surface of the Earth; explain how earthquakes and volcanoes affect the

Earth's surface and the formation of islands and mountains; apply the scientific method in order to conduct scientific inquiry and data gathering with respect to many aspects of Earth Science; interpret data relating to earthquakes such as Richter scale readings and meteorological data such as barometer readings; outline characteristics of various types of climates and be able to discuss whether humans have the ability to affect weather and climate on the Earth's surface for both positive and negative results.

Instruction:

Principles of Earth Science covers a basic overview of Earth Science, focusing on the major principles relating to makeup of the planet Earth, the different processes that give it shape, and its dynamic systems and cycles. The exam assesses students' knowledge of major topics such as weathering and erosion, how major disruptions such as earthquakes and volcanoes affect the development of the Earth's surface, Meteorology and how weather is based on shifts in air masses, precipitation, and fronts. It also requires students to apply the scientific method in order to conduct scientific inquiry along with data gathering and interpretation.

Credit recommendation:

In the lower division baccalaureate/associate degree category, 4 semester hours in Earth Science (3/16).

SOCIOLOGY

Introduction to Sociology (SOC 101)

Learner Outcomes:

Upon successful completion of the proficiency examination, students will be able to: identify and describe the concepts, terminology, and major figures in the field of sociology; detail the nature of the sociological inquiry, methods and perspectives; analyze the social behavior of people in other cultures; understand the process of socialization and how we become social beings; examine various sides of controversial social issues; portray opposing positions on controversial social issues that affect the students' own lives; analyze the different ways in which people act, feel, think and define their situations based on their sex, social class, age, ethnic group, geographical region, family or nationality; understand the issues of diversity and globalization and their impact on our lives.

Instruction:

Introduction to Sociology broadly covers the primary subject matter of the field emphasizing familiarity with the vocabulary and concepts of Sociology. The exam covers the major subfields of and theories in sociology along with assessing students' critical thinking skills and knowledge of basic subject matter including: human culture, societies, the socialization process, the various types of stratification of class, gender, race and ethnicity, the concepts of minority groups, deviance and crime, gender, and age.

Credit recommendation:

In the lower division baccalaureate/associate degree category, 3 semester hours in Sociology, Social Science, or Behavioral Science (3/16).

Sociology of Racial and Ethnic Groups (SOC 320)

Learner Outcomes:

Upon successful completion of this proficiency examination, students will be able to: define such concepts as assimilation, pluralism, ascribed and achieved statuses, prejudice and discrimination; display basic knowledge of historical, socioeconomic, and political demographics of the U.S.; demonstrate critical thinking about different theories and perspectives pertaining to race, class, and gender; apply sociological concepts to the analysis of race and ethnicity to personal and/or family experience.

Instruction:

Sociology of Racial and Ethnic Groups examines the status of racial, ethnic, and cultural minority groups from historical, economic, and political perspective. The exam is designed to expand knowledge of theory, research, and current events in regards to the relations of race, ethnicity, gender and class in the United States. The exam covers concepts relating to assimilation, pluralism, ascribed and achieved statuses, prejudice and discrimination and assess students' critical thinking skills and knowledge of basic subject matter including: historical, socioeconomic, and political demographics of the U.S. along with the various theories and perspectives pertaining to race, class, and gender.

Credit recommendation:

In the lower division baccalaureate/associate degree category, 3 semester hours in Sociology, Social Science, or Behavioral Science (3/16).

Studying Social Problems (SOC 330)

Learner Outcomes:

Upon successful completion of this proficiency examination, students will be able to discuss the nature and severity of selected social problems facing society: identify the multiple causes and consequences of social problems; critically evaluate the effectiveness of various social welfare strategies to alleviate the causes and consequences of social problems; explain and critically evaluate studies on a number of

pressing social problems; cultivate a habit of reflecting upon and articulating their own engagement with the social world and grappling with causes and potential solutions to social problems.

Instruction:

Studying Social Problems is designed to provide a survey of selected contemporary social problems. Major topics covered on the exam include poverty, addiction and substance abuse, mental health, violence with a focus on family violence, crime, teen pregnancy, and health care issues. Students analyze the causes, severity, and consequences of the selected social problems in addition to evaluating social welfare strategies for alleviating social problems.

Credit recommendation:

In the lower division baccalaureate/associate degree category, 3 semester hours in Sociology, Social Sciences, Behavioral Sciences, or as a Social Work elective (3/16).

PSYCHOLOGY

Introduction to Psychology (PSY 101)

Learner Outcomes:

Upon successful completion of this proficiency examination, students will be able to: explore the subject matter of the field of Psychology and discuss vocabulary and concepts of the field with some of the research findings upon which knowledge of human thought and behavior is based; develop critical thinking skills and be prepared to be a cautious and analytical consumer of information who is proclaimed to be scientific or to be based on research. After completion of exam, students will have a general knowledge of the major sub fields of psychology and attain a working understanding of some of the major theories in psychology and develop the critical thinking skills used in the field of psychology.

Instruction:

Introduction to Psychology broadly covers the primary subject matter of the field emphasizing a familiarity with the vocabulary and concepts of Psychology. The exam focuses on the major subfields of and theories in psychology along with assessing students' critical thinking skills and knowledge of basic subject matter including: research methodology, genes and the environment, the brain and the nervous system, sensation and perception, learning, social behavior, memory, emotion, development, and disorders.

Credit recommendation:

In the lower division baccalaureate/associate degree category, 3 semester hours in Psychology, General Education, or Social Science (3/16).

The Science of Nutrition (SCI-101)

Upon successful completion of the course, students will be able to: define various classes of nutrients and discuss the importance of each to human health, focusing on the relationship of water and fluids to electrolyte balance; identify components of a healthy diet, including guidelines based on the USDA food pyramid; discuss different forms of carbohydrates, fats, and proteins important in diets and the best sources for these nutrients and recommended daily allowances for each; identify nutrients necessary for the body to produce its own secretions and other materials necessary for homeostasis; describe the risks for food-borne pathogens and discuss potential methods to reduce risks posed by these pathogens; compare and contrast nutritional needs for adult males, adult females, children, pregnant women, etc.; outline various vitamins and minerals and foods necessary to promote bone health, effects of antioxidants, and energy metabolism; describe the digestive process as it relates to energy metabolism and explain the more common digestive disorders; and outline causes of various nutritional disorders, including obesity, diabetes (Types I and II), malnutrition, etc. and their long-term consequences and treatment options.

Instruction:

This self-study of the human diet contains substantial elements of biology and chemistry as they relate to course topics. Major topics include: Six classes of Nutrients (Organic and Inorganic) and their importance to a well-balanced diet, Sources of Important Nutrients and the value of obtaining these nutrients from certain foods, Impact of Physical Activity as it relates to Nutrition and Health, Nutrition-related diseases and disorders, Categories of people (children and pregnant women) and their need for special diets. An as additional requirement to reading the textbook and study guide, students will participate in the My Nutrition Lab with diet analysis for a period of two weeks and turn in the report generated by the system.

Credit recommendation:

In the lower division associate/baccalaureate degree category, 3 semester hours in Nutrition or as college core science requirement (11/13).

Introduction to Public Speaking (COM-101)

Learner Outcomes:

Upon successful completion of the course, students will be able to: identify the principal goals of a given speech and ensure that speeches are organized in order to achieve those goals; distinguish between hearing, listening, and critical listening and determine which techniques assist in gaining maximum critical listening participation from an audience; properly research the content and ideas of the speech to gain support for the ideas that the speaker is presenting and appropriately incorporate those ideas

into a speech; outline a speech as a means to develop raw ideas into appropriate presentations and visual aids; and organize a speech that includes introduction, transitions, body of the speech, and conclusion.

Instruction:

This self-study course provides an overview of public speaking techniques, goals, and procedures. The course begins with a discussion of presentation of speeches in general and ways to encourage maximum audience attentiveness. Other topics covered are: researching speeches and planning presentations to ensure maximum effectiveness, writing and organizing speeches, persuading and informing audiences, and adapting speeches depending on the event, environment, and audience. Students are required to deliver four oral speeches of varying lengths on assigned topics as described in the course syllabus and to a final examination to earn credit recommendations for this course.

Credit recommendation:

In the lower division associate/baccalaureate degree category, 3 semester hours in Communications (6/13).