Advising a student to take a Science Course.

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General Information

1. Laboratory classes are scheduled separately from lecture classes and do not print clearly on the student’s schedule. Laboratory classes are scheduled for 1 hour 50 minutes. These class times do not appear completely on the web master schedule nor the student’s printed schedule. This sometimes results in class conflicts or confusion for students early in the semester. It is worthwhile to clarify with the student the laboratory class times during the advisement process. These times are listed on the printed Master schedule available from the Registrar’s office, or you can contact Lynn Fowler at x348 (room 214T) with any questions.

2. For returning or transferring students, please make sure that the students whom you’re advising have successfully met the course prerequisites before registering them for science courses (refer to attached course descriptions and advising notes, or the college catalog). Please note that almost all science courses have a minimum prerequisite of MAT100 or equivalent and/or ENG094 or placement into ENG101.

3. Schedule a succession of science courses in consecutive semesters, whenever possible. Students who need to take a sequence of science courses are generally more successful if they do not take semester (or longer) breaks between courses. An uninterrupted progression of science courses ensures continued practice and application of concepts, leading to greater retention of the material.

4. Start students in the science sequence as early as possible, especially if the student is a math/science major. In order to complete their program requirements within a reasonable timeframe, it is important for students to begin the science sequence as soon as possible. Certain courses are not offered every semester (see attached “Schedule of Science Courses...”
offered by semester”). It is important to plan out a long term course sequence for students requiring certain courses and/or a course sequences for graduation.

5. **Try to schedule science classes that play to the students’ strengths.** Ask the students about their preferences. The following list may be useful for advising students who are not completing a Math & Science A.S. degree. These science courses are applied science courses that focus on science literacy. This list should be used only as a guide. Please refer to the appropriate curriculum worksheet for each student.
Great Options for the non-major and non-science Education major:

- Biology: BIO100 (Human Biology)
- Chemistry: *CHE101 (Applied Chemistry)
- Environmental issues: ENV101 (Environmental science)
- General Science: CHE100 (Forensic science), *GEL101 (Physical geology), MET100 (Meteorology), *PHY100 (Conceptual Physics), *SCI101 (Bio/Chem), *SCI102 (Earth/physical science)

Science courses for Nursing and Allied Health (including MLT)

- Biology: *BIO101/*BIO102 (General Biology I/II) BIO204 (Microbiology) *BIO226/*BIO227 (A&P I/II) *BIO250 (Biotechnology)
- Chemistry: *CHE101 (Applied Chemistry; pre-nursing only) *CHE111/*CHE112 (General Chemistry I/II)

* Prerequisite required – see attached course descriptions or college catalog.

Courses for Science majors

(including specialty disciplines such as environmental science, forestry, medical technology, pre-Med, pharmacy, physical therapy, radiology etc)

If a student plans to transfer from CCC to another four-year school within the SUNY system we have a number of 2+2 articulation agreements/transfer options for students who will graduate with an Associate Degree in Liberal Arts: Math & Science A.S. degree (see attached “2+2 Articulation/transfer agreements in Science”). These are also listed on the <Math/Science> link under <Degree programs/worksheets> in Faculty/Staff section of the CCC website. Appropriate courses and sequences for these students include, but may not be limited to, BIO101/102, CHE111/112, PHY111/112, BIO204, BIO206, BIO250, CHE241/242, CHE260, ENV210, ENV220, ENV230 and GEL101.

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2+2 Articulation and advisement options in Science

SUNY Plattsburgh
Biology
Biochemistry
Chemistry
Childhood Education with Concentration in Biology Studies (B.S.)
Childhood Education with Concentration in Chemistry (B.S.)
Childhood Education with Concentration in Earth Science (B.S.)
Environmental Science (B.A.) or (B.S)

SUNY Upstate Medical University at Syracuse
Cardiovascular Perfusion (B.S)
Cytotechnology
Medical Imaging Sciences (B.S)
Medical Technology (B.S)
Radiation Therapy Technology (B.S)
Respiratory Care – Cardiorespiratory Sciences (B.S)

Paul Smith’s College
Forestry – Ecological Forest Management (B.S)
Forestry – Forest Biology (B.S)
Forestry – Industrial Forestry Operations (B.S)
Forestry – Recreation Resource Management (B.S)
Natural Resources

For more information on 2+2 transfer or advisement options in these disciplines please see the college catalog.

7. Be especially prudent when it comes to registering students for online science courses. These courses are offered in two formats: (1) DL or asynchronous courses in which all the theory and lab activities are done via the online course and (2) HL or hybrid course which have mandatory on campus laboratory classes. Dates for these classes are available to students during the registration process and each student must agree to attend all laboratory classes listed to be successful in the course.

Please contact Lynn Fowler if you have any questions regarding science advisement. My office is Rm. 214T, extension 348, or you can contact me by email at lynn.fowler@clinton.edu

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Science Course Descriptions and Advisement notes

* These science courses satisfy the General Education requirement for Natural Sciences.

BIOLOGY

* BIO100 – Human Biology (4 credits)
This course is designed to be a general science course for non-science majors. It covers general topics in biology including science, chemistry, cells, cell division, genetics, protein synthesis, biotechnology and bioethics. Several body systems including the circulatory, respiratory, and immune systems are also covered. The objective is to raise students’ science literacy to enable them to understand scientific issues for making personal and public policy decisions. There are three hours of lecture and one two-hour laboratory per week.
Corequisite: ENG101
Advisement notes: Students who have received credit for BIO101 or BIO102 cannot subsequently receive credit for BIO100. In the case that a student completes BIO100 prior to completing BIO101 or BIO102, then BIO100 will count as free elective credit only.

* BIO101 – General Biology I (4 credits)
This course is the first course of a two semester introductory course covering some general biology concepts, including molecular and cellular basis of life, photosynthesis, cellular respiration, cellular reproduction, and introductory concepts of genetics, inheritance and biotechnology. The laboratory includes basic skills such as safety, microscope use, measurement, and reinforces topics discussed in lecture. There are three hours of lecture and one two-hour laboratory per week.
Corequisite: ENG101.
Advisement notes: Students who have received credit for BIO101 or BIO102 cannot subsequently receive credit for BIO100. In the case that a student completes BIO100 prior to completing BIO101 or BIO102, then BIO100 will count as free elective credit only.

BIO102 – General Biology II (4 credits)
This course is a continuation of BIO 101. Topics include evolution, biological diversity, plant structure and function, animal systems, development and reproduction, and introductory concepts of ecology with emphasis on current environmental concerns. The laboratory reinforces concepts discussed in lecture emphasizing anatomy and physiology of selected members of the plant and animal kingdoms.
There are three hours of lecture and one two-hour laboratory per week.
Prerequisite: BIO101 – General Biology I. Corequisite: ENG101
Advisement notes: Students who have received credit for BIO101 or BIO102 cannot subsequently receive credit for BIO100. In the case that a student completes BIO100 prior to completing BIO101 or BIO102, then BIO100 will count as free elective credit only.
* BIO204 – Microbiology (4 credits)
This course is an introduction to the study of bacteria, viruses and eukaryotic members of the microbial world with an emphasis on their relationship to health and disease. Course topics include microbial structure, growth and replication, metabolism, pathogenicity of microorganisms, and the control of microbial growth. The laboratory includes basic techniques, such as staining, aseptic technique, and methods of bacterial identification. There are three hours of lecture and one two-hour laboratory per week.
Corequisite: ENG101.
Advisement notes: Students should have a strong background in biology to be prepared for this course.

BIO206 – Ecology (4 credits)
This course introduces basic relationships between organisms and their environment. It includes a study of the abiotic environment, natural selection, population ecology, growth, and genetics, species interactions, energy flow and nutrient cycling, geographic ecology, and animal behavior. There are three hours of lecture and one two-hour laboratory per week. Field trips may be included in the laboratory.
Prerequisite: BIO101. Corequisite: ENG101

BIO226 – Anatomy and Physiology I (4 credits)
This course is the first of a two semester comprehensive study of the ten organ systems of the human body, integrating chemical basis of the physiology of each system with structure and function. Includes a study of cells and tissues, digestive, respiratory, urinary and reproductive systems. The laboratory section of the course includes mammalian dissection and direct observation, by experiment of the natural laws governing human physiological processes. There are three hours of lecture and one two-hour laboratory per week.
Prerequisite: BIO101 or one year of high school biology*; CHE101 or CHE111 or one year of high school chemistry is recommended.
Advisement notes: *Students should have taken biology within the past 5 years to be prepared for this course.

BIO227 - Anatomy and Physiology I (4 credits)
BIO227 is a continuation of BIO226. The endocrine, nervous, sensory, circulatory, skeletal and muscular systems are covered. There are three hours of lecture and one two-hour laboratory per week.
Prerequisite: BIO226

BIO250 – Biotechnology (4 credits)
This course provides an introduction to biotechnology and its application in a variety of medical, clinical and science disciplines. Topics covered include GLP, GMP, solution chemistry, spectroscopy, chromatography, basic microbiology techniques and DNA and protein purification/separation techniques. This course emphasizes basic laboratory skills essential for beginning level employment in clinical, pharmaceutical and biotechnology laboratories. This course is well suited to students in all majors programs. There are three hours of lecture and one two-hour laboratory per week.
Prerequisites: BIO 100, BIO 101 or CHE 101. Corequisite: ENG101

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CHEMISTRY

*CHE100 – Introduction to Forensic Science (4 credits)
This course is designed to provide an overview of the basic science concepts and techniques used in a forensic laboratory. The nature and significance of physical evidence and the underlying chemical and biological principles of the scientific techniques employed for analysis and the interpretation will be emphasized. Topics covered include hair, fiber and paint analysis, forensic toxicology and serology, blood spatter, arson and explosives, fingerprinting and forensic DNA analysis techniques. There are three hours of lecture and one two-hour laboratory per week.
Corequisite: ENG101

*CHE101 – Applied Chemistry (4 credits)
This is a basic chemistry course appropriate for non-science majors, elementary education majors, and students in pre-nursing. Students learn basic concepts and the vocabulary used in chemistry as well as how to apply concepts to quantitative problems. The topics covered include measurement, atoms, molecules, mass, energy, naming compounds, acids and bases, and basic organic chemistry concepts. There are three hours of lecture and one two-hour laboratory per week.
Prerequisite: ENG 094 and MAT 100 or equivalent.
Advisement notes: Students who have received credit for CHE111 or CHE112 cannot subsequently receive credit for CHE101. In the case that a student completes CHE101 prior to completing CHE111 or CHE112, then CHE101 will count as free elective credit only.

*CHE111 – General Chemistry I (4 credits)
This course is the first course of a two-semester sequence which presents the concepts of general quantitative chemistry. The course will include measurement, stoichiometry, thermochemistry, the periodic table, introduction to acids an bases, reduction and oxidation, ionic and covalent bonding, molecular structure, VSEPR, and MO theory. There are three hours of lecture and one two-hour laboratory per week.
Prerequisite: ENG094 and MAT100 or equivalent.
Advisement notes: Students who have received credit for CHE111 or CHE112 cannot subsequently receive credit for CHE101. In the case that a student completes CHE101 prior to completing CHE111 or CHE112, then CHE101 will count as free elective credit only.

CHE112 – General Chemistry II (4 credits)
This course is the second semester of a two-semester sequence which presents the basic theories and concepts of general chemistry. This course will focus on the principles of reactivity with respect to chemical kinetics, chemical equilibrium, acid-base chemistry, precipitation reactions, entropy, free energy, red-ox chemistry, and an introduction to nuclear chemistry. There are three hours of lecture and two hours of laboratory per week.
Prerequisite: CHE111 or equivalent.
Advisement notes: Students who have received credit for CHE111 or CHE112 cannot subsequently receive credit for CHE101. In the case that a student completes CHE101 prior to completing CHE111 or CHE112, then CHE101 will count as free elective credit only.

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CHE241 – Organic Chemistry I (4 credits)
This course is the first semester of a two-semester sequence of basic organic chemistry covering saturated, unsaturated and aromatic hydrocarbons, alkyl halides, their reaction, structure, reaction mechanisms, stereochemistry, mass spectrometry, and spectroscopy. There are three hours of lecture and one two-hour laboratory per week.
*Prerequisite: CHE112 or equivalent.

CHE242 – Organic Chemistry II (4 credits)
This course is the second semester of a two-semester sequence of basic organic chemistry covering aromatic reactions, the chemistry of functional groups: alcohols and thiols, ethers, epoxides and sulfides, aldehydes and ketones, carboxylic acids, amines, and some biological compounds. There are three hours of lecture and one two-hour laboratory per week.
*Prerequisite: CHE241 or equivalent.

CHE260 – Instrumental Analysis (4 credits)
This course provides an intensive study of instrumental analysis for the evaluation, separation, isolation and identification of the chemical components of a variety of both pharmaceutical and environmental samples. Introductory topics covered are measurement, sampling protocol, methods involving preparation of standards and the basic components common to most instruments. Specific topics deal with sample preparation, instrument design, calibration, operation, data collection, spectral analysis and troubleshooting for each instrument being studied. The instruments used in this course are UV/VIS, FTIR, AA, GC/MS and HPLC. There are two hours of lecture and one four-hour laboratory per week.
*Prerequisite: CHE112 or equivalent.

ENVIRONMENTAL SCIENCE

*ENV101 – Environmental Science (4 credits)
This course is an interdisciplinary science course that provides an overview of how the earth works, how we as humans are affecting the earth’s global environment, and how we deal with the environmental problems we face. There will be a strong emphasis on environmentally sustainable societies, pollution prevention and control, conservation and ecological factors, economic issues and influences, energy sources, and renewable versus nonrenewable resources. There are three hours of lecture and one two-hour laboratory per week.
*Corequisite: ENG101

ENV210 – Environmental Technology (4 credits)
The occurrence, physical, and chemical nature of groundwater in the context of a variety of geologic settings is the background for applying practical methods of site characterization. Topics include pollution sources, and the fate of pollutants in the air, water and soil. Emphasis is placed on technologies to deal with hazardous materials, hazardous waste pollution prevention, and occupational health safety, as well as the concepts of environmental management. Field methods and the use of Global Positioning System (GPS) and the Geographic Information...
System (GIS) as integrated tolls used by environmentalists will be integrated into the course. There are two hours of lecture and one four-hour laboratory per week. 

*Corequisite: ENV101 – Environmental Science or equivalent.*

**ENV220 – Seminar in Environmental Issues (1 credit)**
This course provides the student with an opportunity to discuss in depth a local environmental issue that is indicative of our region. The students will work together to analyze the environmental issue from all aspects. All public documents related to the issue will be reviewed as well as the students will participate in any public hearing or forum related to the issue. 

*Corequisite: ENV101 – Environmental Science or equivalent.*

**ENV230 – Simulated Environmental Impact Statement Project (1 credit)**
This course allows the student to participate in a simulated Environmental Impact Statement (EIS) on a fictitious project. The students work together to prepare the EIS document that thoroughly analyzes the environmental consequences of the project. The students will prepare their findings and present them in a mock hearing to the public for scrutiny.

*Corequisite: ENV101 – Environmental Science or equivalent.*

**GEOLOGY**

*GEL101 – Physical Geology (4 credits)*
This is an introductory course that covers minerals, rocks, and the processes that develop and modify the composition, structure and topography of the earth. Aspects of environmental geology will be presented. There are three hours of lecture and one two-hour laboratory per week.

*Prerequisite: ENG094 and MAT100 or equivalent.*

**METEOROLOGY**

**MET101 – Meteorology (4 credits)**
Meteorology is a course designed for the student who would like to learn more about weather phenomenon. This course explores atmospheric phenomena such as the nature and variability of the wind, temperature, cloud and precipitation as well as the Earth’s energy budgets. Emphasis is placed upon the various terminology and tools that meteorologists employ to observe, study and predict storm systems, the development and movement of fronts, as well as thunderstorms and tornadoes. Current topics such as the El Nino, climate modification and air pollution will also be addressed. There are three hours of lecture and one two-hour laboratory per week.

*Corequisite: MAT 100 or equivalent*
**PHYSICS**

**PHY100 – Conceptual Physics (4 credits)**
Conceptual physics is a laboratory course that emphasizes the concepts of physics while de-emphasizing complex mathematical calculations. Topics include Newtonian mechanics, heat and temperature, sound and topics from modern physics. There are three hours of lecture and one two-hour laboratory per week.

*Prerequisite: MAT 100 or equivalent.*

*Advisement notes:* Students who have received credit for PHY111 or PHY112 cannot subsequently receive credit for PHY100. In the case that a student completes PHY100 prior to completing PHY111 or PHY112, then PHY100 will count as free elective credit only.

**PHY111 – General Physics I (4 credits)**
This is the first of a two-semester sequence which covers: mechanics, which includes the study of linear, circular and rotational motion and how Newton’s laws, and the concepts of energy and momentum can be applied, thermodynamics including temperature, heat transfer, and changes in state, and analysis of the sinusoidal nature of simple harmonic motion. There are three hours of lecture and one two-hour laboratory per week.

*Prerequisite: MAT105 or concurrent enrollment in MAT200.*

*Advisement notes:* Students who have received credit for PHY111 or PHY112 cannot subsequently receive credit for PHY100. In the case that a student completes PHY100 prior to completing PHY111 or PHY112, then PHY100 will count as free elective credit only.

**PHY112 – General Physics II (4 credits)**
This is a continuation of General Physics I with the following topics included: electricity, magnetism, sound, optics, and quantum physics. There are three hours of lecture and two hours of laboratory per week.

*Prerequisite: MAT200 and PHY111 or equivalent.*

*Advisement notes:* Students who have received credit for PHY111 or PHY112 cannot subsequently receive credit for PHY100. In the case that a student completes PHY100 prior to completing PHY111 or PHY112, then PHY100 will count as free elective credit only.

**SCIENCE**

**SCI101 – Science Inquiry: Bio/Chem (4 credits)**
This course is an interdisciplinary science course providing an overview of key biological, chemical and biochemical concepts as they pertain to the core curriculum for elementary (K-4) education and NYS Mathematical, Science and Technology standards. This course is designed to introduce non-science majors and future educators to biological and chemical concepts through methods of inquiry. The laboratory reinforces science content discussed in lecture and students will further develop their understanding of science using the process of inquiry. There are three hours of lecture and one two-hour laboratory per week.

*Corequisite: ENG101, MAT100 or equivalent.*

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*SCI102 – Science Inquiry: Earth/Physical Science (4 credits)
This course is an interdisciplinary science course providing an overview of key physical, earth and space, and science and technology concepts as they pertain to the core curriculum for elementary (K–4) education and NYS Mathematics, Science and Technology standards. This course is designed to introduce non-science majors and future educators to physical science concepts through methods of inquiry. The laboratory reinforces science content discussed in lecture and students will further develop their understanding of science using the process of inquiry. There are three hours of lecture and one two-hour laboratory per week.
Corequisite: ENG101, MAT100 or equivalent.
### Schedule of Science Courses Offered by Semester*
*(Courses in Bold are offered one semester per academic year)*

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Fall Semester</th>
<th>Winter Session</th>
<th>Spring Semester</th>
<th>Summer Session</th>
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<tr>
<td>BIO 100</td>
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<td>Seminar in Environmental Issues **</td>
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* The schedule of courses offered by semester may be altered at any time as a result of student and program needs; the schedule does not include CAP courses.

** The indicated course will be offered on an as-needed basis only

*revised 10/30/07*
Schedule of Science Distance Learning (DL) and Hybrid Learning (HL) Courses *

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Fall Semester</th>
<th>Winter Session</th>
<th>Spring Semester</th>
<th>Summer Session</th>
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<td>BIO 250</td>
<td>Biotechnology **</td>
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<tr>
<td>CHE100</td>
<td>Introduction to Forensic Science</td>
<td>HL</td>
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** The indicated course will be offered on an as-needed basis only.

HL (Hybrid) courses have required on campus laboratory classes. Dates and times for these classes will be determined by the course instructor each semester and will be available to registering students.