ONLINE

BIO 2120 Microbiology
JULY 13–AUGUST 21
This course offers the student an opportunity to examine organisms that are too small to be seen with the naked eye. This is a comprehensive study of the basic principles of microbiology. A brief survey of the history of the science is given. Emphasis is placed on understanding the variety and differences of microbes and their relationship to humans. Virtual laboratory study and in-laboratory demonstrations complement the lecture. Successful completion of the laboratory exercises is a partial requirement for the course; 3 hours of lecture, 3 hours of laboratory per week.

ENG 2080 Technical Communication
MAY 27–JULY 12
This course is a comprehensive study of the principles, methods, and forms needed to produce clear and effective technical reports, proposals, instructions, graphic aids, and correspondence. Students are prepared for employment interviews through their study of principles of oral communication and their writing of job application letters and resumes. A major technical report written on a topic in the student's area of interest is required. The Writing Graduation Standard is assessed in this course. This course is writing-intensive; 3 hours of lecture per week.

HIS 1220 Native American Histories and Culture
MAY 27–AUGUST 12
This is an interdisciplinary course exploring indigenous cultures of North America. Students will consider the pre-Columbian world; history of contacts between natives and settlers; and contemporary issues including legal sovereignty, land claim, resource policy, poverty, and cultural autonomy; 3 hours of lecture per week.

HIS 3165 Vermont History & Government
MAY 27–AUGUST 12
This course provides a close look at Vermont's historical, social, and economic development, its problems as a republic, the struggle for statehood, and its constitution and government today. The instruction observes Vermont's place in American civilization from its inventive, cultural, educational, literary, and political contributions; 3 hours of lecture per week.

HUM 2020 Bioethics
MAY 27–AUGUST 12
This course provides an exploration of ethical issues from beginning-of-life to end-of-life, from legal, medical, and philosophical perspectives. Topics include assisted reproduction; abortion; euthanasia; genetic experimentation and cloning; and homosexuality; 3 hours of lecture per week.

HUM 3490 Crime & Punishment in Film and Literature
MAY 27–AUGUST 12
This course introduces students to the fundamental legal and ethical issues in American crime and criminal justice through film and literature. The course examines the dilemmas in crime and punishment. Students discuss literature and films in the context of the humanities; 3 hours of lecture per week.

MAT 1420 Technical Mathematics
MAY 27–AUGUST 12
This course stresses the relation of mathematics to engineering applications and development of an appreciation of the importance of precision in mathematical thought. It covers use of the graphing calculator; linear and quadratic equations; exponents and radicals; logarithms; exponential functions; right triangle trigonometry, laws of sines and cosines; vectors; operations with complex numbers; trigonometric identities and equations; and graphs of trigonometric functions; 5 hours of lecture per week.

MAT 2021 Statistics
MAY 27–AUGUST 12
This course is an introduction to the basic ideas and techniques of probability and statistics. It is designed to prepare students to interpret quantitative information and to make statistical decisions. Topics include descriptive statistics; probability; characteristics of the normal distribution; mean and standard deviation; and steps in hypothesis testing; 3 hours of lecture per week.

MUS 1010 Music Appreciation
MAY 27–AUGUST 12
This course is a survey of how classical music and opera have developed over the last thousand years. Students learn to identify different periods of music and to analyze musicians' interpretations of classical pieces. The course explores how cultural, economic, social, and political systems have supported or suppressed composers and their music; 3 hours of lecture per week.

SOC 1010 Introduction to Sociology
MAY 27–AUGUST 12
A survey of the basic issues, concepts, theories and methods of sociology. Students learn to think critically about the nature of society and social institutions, and the relationship among individuals and groups. Topics will include social organization, socialization and social change, social stratification, class and class conflict, gender, race, and ethnicity.
**EDU 1225 Focused Assessment of Prior Learning**  
TBD, SATURDAYS 9–11:30 AM  
MAY 30; JUNE 6, 13, 20; JULY 11, 18  

This one credit course helps you create a portfolio which describes and documents your prior learning in one specific academic subject area. The class meets six times. You may request up to 16 credits in one academic field. You pay the one-credit tuition and a one-time $225 assessment fee. Focused portfolios are evaluated within 30 days. Awarded credits are free!

**MAT 1210 Principles of Mathematics**  
MW, 6–9 PM, MAY 27–JULY 10  

This course is a review of general mathematics principles and an introduction of concepts for the solution of agricultural, agribusiness, and business problems. Topics covered include calculator use; basic algebraic operations; solution of linear and quadratic equations; geometry concepts of line, area, and volume; variation; trigonometry of right triangle; growth; compound interest; debt amortization; probability; and statistics; 3 hours of lecture per week.

**MAT 1420 Technical Mathematics**  
TTH, 6–8:30 PM, JUNE 22–AUGUST 12  

This course stresses the relation of mathematics to engineering applications and development of an appreciation of the importance of precision in mathematical thought. It covers use of the graphing calculator; linear and quadratic equations; exponents and radicals; logarithms; exponential functions; right triangle trigonometry, laws of sines and cosines; vectors; operations with complex numbers; trigonometric identities and equations; and graphs of trigonometric functions; 5 hours of lecture per week.

**PHY 1042 Physics II**  
MW, 3:30–6:30 PM, MAY 27–AUGUST 12  

This course is a continuation of PHY 1041 for electrical engineering technology and computer engineering technology students. Emphasis is on understanding basic physical concepts that relate both to practical situations and to subsequent technical courses. Topics include thermodynamics; wave motion; electrical and magnetic field theory; electricity; light; and semi-conductor physics; 3 hours of lecture, 3 hours of laboratory per week.

**MAT 2532 Calculus II**  
MTWHF, 7–9:30 AM, MAY 27–JULY 12  

A continuation of Calculus; includes techniques and applications of integration; indeterminate forms and improper integrals; sequences; and series; 4 hours of lecture per week.

**AER 1010 Aviation Private Pilot Ground School**  
T; 5:30–8:30 PM, JUNE 9–AUGUST 18  

This course, commonly referred to in the industry as “Ground Training” is one of two which enables the student to gain the necessary aeronautical skill, knowledge and experience to meet the requirements of a Private Pilot Certificate with an Airplane Category rating and a Single-Engine Land class rating. The second course, titled “Private Pilot - Flight [Lab],” must be completed simultaneously with this course, no exceptions. The subject material in both courses is essentially identical, the difference being entirely comprised of where and how the student learns content; 3 hours of lecture per week.

**VERMONT INTERACTIVE TELEVISION**  
ENG 1060/1061 English Composition  
MW 3–4:30 PM; LAB W 2–3 PM, MAY 27–JULY 12  

Students are expected to read and think critically, to write effectively, and to understand the fundamentals of literary analysis and written composition. Classroom discussion of assigned readings and the construction of related essays are stressed. A required research paper demonstrates the student’s use of resources in locating, organizing, and presenting materials in an accepted format. The Writing Graduation Standard is assessed in this course. This course is writing-intensive; 3 hours of lecture per week.

**REGISTRATION**  
To register for a class, please follow these directions:  
- **Matriculated students** should see their academic advisor or contact Jeff Higgins, Summer Session Coordinator at jhiggins@vtc.edu or 802.728.1217.  
- **Non-matriculated students** will need to complete the summer course registration form and submit to the Registrar’s Office. This form can be acquired by visiting vtc.edu/summer or emailing the Registrar’s Office at registrar@vtc.edu.

**WILLISTON**  
**AER 1010 Aviation Private Pilot Ground School**  
T; 5:30–8:30 PM, JUNE 9–AUGUST 18  

This course, commonly referred to in the industry as “Ground Training” is one of two which enables the student to gain the necessary aeronautical skill, knowledge and experience to meet the requirements of a Private Pilot Certificate with an Airplane Category rating and a Single-Engine Land class rating. The second course, titled “Private Pilot - Flight [Lab],” must be completed simultaneously with this course, no exceptions. The subject material in both courses is essentially identical, the difference being entirely comprised of where and how the student learns content; 3 hours of lecture per week.

**ENG 1060/1061 English Composition**  
MW 3–4:30 PM; LAB W 2–3 PM, MAY 27–JULY 12  

Students are expected to read and think critically, to write effectively, and to understand the fundamentals of literary analysis and written composition. Classroom discussion of assigned readings and the construction of related essays are stressed. A required research paper demonstrates the student’s use of resources in locating, organizing, and presenting materials in an accepted format. The Writing Graduation Standard is assessed in this course. This course is writing-intensive; 3 hours of lecture per week.

**LEARN MORE**  
visit: [www.vtc.edu/summer](http://www.vtc.edu/summer)  
call: 1.802.728.1303