

Syllabus
Green Mountain Technology and Career Center
Pre-Technology Program (6 Credits)
2015-16
Rooms: T-13, T-16, T-17

Instructors:

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Description:

This program is the only 10th grade program at GMTCC. This program is unique in the way that students will have the opportunity to explore future career pathways, both on and off campus. Students will have the opportunity to visit several of our 11th/12th grade GMTCC programs, which are possibilities for following years. Students will also have the opportunity to participate in Career OutReach Exploratory (C.O.R.E.) which will allow students to job shadow several local businesses. These experiences will assist students in completing a culminating project of a Career Development Portfolio.

In addition to the Career Development portion of Pre-Technology. Students will also be required to complete the 10th grade Pre-Technology Academic Courses of: English, Social Studies, Math, Science, Technology Education, and Physical Education. The entire Pre-Technology Program carries 6 High School Credits. *ONLY students who successfully complete academic requirements will be able to participate in the Career Development portion of Pre-Technology.*

Academic Grading:

Tests, Quizzes, Projects, Class Work, Homework- 50%

Binder Organization & Maintenance-25%

Employability Skills Reviews-25%

Employability Skills:

GMTCC evaluates all students on the GMTCC Employability Skills. These skills are specific skills that employers classify as most essential to success in the global workforce. Students are expected to achieve success in areas of: Attendance, Safety, Appearance, Performance, Workmanship, Interpersonal Relationships, Critical Thinking, and Problem Solving.

Pre-Technology Students are assessed on their Employability Skills Bi-Quarterly. *ONLY students who are assessed as "Successful" in Employability Skills will be recommended for a 2nd year placement.*

Pre-Technology Exploratory:

Students will begin the year participating in various activities that are designed to measure individual career interests. Based upon these results, each individual student will be assigned several GMTCC Technology Programs that they will be able to visit. These visits generally occur during the 2nd & 3rd Quarters. Students generally visit each of their assigned programs for 1 week, for 2 hours/day. Through this experience, students will be able to make a more informed decision about their pathways for 11th & 12th grade. This is also an opportunity to make a positive impression on prospective GMTCC Instructors.

Career OutReach Exploratory (C.O.R.E.):

The Pre-Technology Program has expanded in school year 2014-15 to include new curricula in the area of career development. The curricula are titled Career Outreach Exploratory (CORE) and Career Development. They are embedded in the existing Pre-Technology program; including but also expanding on many activities already a part of the program. Here is a link to the CORE/CDP [syllabus](#).

CORE is an expansion of the exploratory section of Pre-Technology. Students are grouped by interests and aptitudes (as discovered in surveys, assessments, and research), and those groups set up and prepare for job shadows and interviews of professionals relevant to their common interests. Emphasis is put on reflection.

Career Development is embedded within Language Arts and Life Skills curricula such as resume and cover letter writing, filling out applications, writing formal thank you letters, and mock interviews. Career Development culminates with the creation of a personal Career Development Portfolio website for each student.

Academic Courses: (6 Total Credits)

Pre-Technology English: (1 Credit)

Mr. St. Peter

Pre-Technology English focuses around making improvements in literacy within the scope of College and Career Readiness. The year begins with a focus on strengthening writing composition (the mechanics of writing). Throughout the year, students will develop their writing through all steps of the "Writing Process" through reflective samples of their experiences in their Career Exploration. Students will also be composing writing projects for their Career Development Portfolio (CDP) which will include: Business Letters, Resumes, Cover Letters, as well as filling out Applied Forms. This class also will focus on studies in American Literature, as we will read and analyze novels that relate to events in U.S. History that we will be studying concurrently in Social Studies Class.

Units Covered Include:

- *Grammar, Usage, & Mechanics*
- *Reflective Writing & Journaling*
- *Career-Based Writing/Applied Forms*
- *American Literature: Great Depression Era*
- *American Literature: World War II Era*
- *American Literature: Cold War Era*
- *Persuasive Writing*

(Possible Literature Novels Include: Of Mice & Men, Grapes of Wrath, Maus, Maus II, and Animal Farm)

20th Century U.S. History: (1 Credit)

Mr. St. Peter

20th Century U.S. History will focus on the people and events that shaped our nation during (and leading up to) the 20th Century. Students are introduced to these concepts after an introductory unit on U.S. Geography, as well as some of the fundamental principles of how our society has been formed. The central theme of this class is to learn that history is linear, where each cause has an effect; the events of yesterday shape the events of today, which shape the events of tomorrow. We will briefly cover the events leading up to the turn of the 20th Century, and then cover as many eras in U.S. History as our school year will allow. Our primary unit will be an in-depth focus on the events of World War II. Each unit will include student-centered learning activities to help simulate the events of particular time periods in our nation's history.

Units Covered Include:

- *Introduction to U.S. History & Geography*
- *World War I Era*
- *Great Depression Era*
- *World War II Era*

- *Cold War Era*
- *U.S. Civil Rights Movement*
- *Vietnam Conflict Era*

Math: (1 Credit)

Mr. Schwartz /Mr. Weller

Pre-Technology math takes algebra and applies it to all of the programs that our center has to offer. Our curriculum uses the foundations of arithmetic and algebra 1 to make gains in math confidence and competence within the an area of college and career readiness. Through investigatory practices students learn algebra from functions to quadratics all with respect to real-world applications. Throughout the year students build upon the fundamentals of math literacy and strengthen their equation understanding as pertaining to functions. The units progress through but not limited to: exponents, roots, polynomials, factoring, quadratics, and graphing. All areas of content are discoverable from a student vantage based on building what they know into what they need. Through problem-solving, critical thinking, and communication enrichment students will see value in the gains made throughout the year.

Unit topics vary and are dependant on individual student's math placement.

Science: (1 Credit)

Mr. Schwartz

Pre-Technology Science is based around the idea of curiosity as it applies to learning about our physical world. Investigations in Physics are the predominant content areas which lend themselves to applications in each of our center's career fields. The curriculum is for students to discover physics to become leaders in their junior year tech programs. Our curriculum builds on the math fundamentals to strengthen problem solving and critical thinking in real world lab problems. Through teamwork, self discovery, and problem based applications students create their own understanding about the world of Physics.

Units Covered Include:

- *Matter*
- *Motion in Two Dimensions*
- *Force*
- *Energy*
- *Heat*
- *Electricity*

Technology Education: (1.5 Credit)**Mr. Schwartz/Mr. Weller**

The Pre-Technology Program instructs Technology Education in several ways. Pre-Technology utilizes its technology lab for several projects throughout the year. The year begins with instruction around safe and responsible tool usage. Projects throughout the 1st quarter are used to instruct and assess students on lab safety practices. Also during the 1st quarter, students begin career interest research. This research will help shape the Exploratory/C.O.R.E. program for each individual student (See Page 2). Exploratory/C.O.R.E. begins at the beginning of the 2nd quarter and will last until the conclusion of the 3rd quarter. From these experiences, students are able to make a more informed decision about their career pathways.

Physical Education: (.5 Credit P/F)**Mr. St. Peter**

During the 1st & 4th Quarter, Pre-Technology participates in several "Team Building" activities. Many times, these activities will be cooperative/physical games. These activities help break up our day, and provide our students with opportunities for fresh air and exercise. We also routinely take a 10-minute walk around the school. These opportunities also allow us to award our students with a .5 Credit for P.E.