Mr. Policke’s
Course Syllabi and Expectations
2019 – 20 School Year

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Teacher Name: P. Policke

Term: 2019 – 20

Course Name: Engineering Technology

Course #: 8401110, 8401120, 8401130

Suggested Materials:
- Organized notebook
- Pens/Pencils
- Loose-leaf college-ruled paper
- Ruler
- Flash drive
- Scientific calculator

Course Objectives:
The purpose of this course sequence is to provide students with a strong foundation of knowledge and technical skills in the areas of engineering, manufacturing, and design. Students will apply leadership skills and demonstrate talents using engineering processes and systems, as well as state of the art instruments and machines. Students will also develop research and problem-solving skills to design, construct, test, and evaluate models and prototypes.

Major Units:
State standards for Engineering Technology (see Applied Engineering Technology) will be organized into four primary approaches for learning:

- Amatrol Trainers – automated materials handling, design processes, electrical systems, fluid power, & machining
- Design Projects – critical thinking and problem-solving skills as well as teamwork and cooperative learning
- CAD Platforms – whole group instruction focusing on AutoCAD, Architecture, and Inventor
- Traditional Lessons – topics will emphasize manufacturing processes

Integration of core courses, along with college and career planning, will be included in the above learning opportunities. Students will have opportunities to take the Industry Certification Exams for AutoCAD and Inventor.

Major Projects:
Students will research and present information related to topics included in our curriculum. Students will also design, create, and test various design projects that will be used to enhance our curriculum along with integrating interdisciplinary concepts, skills, and applications. Such projects are designed with student input and will be developed during the school year.

NOTE: Students will be responsible for gathering materials for such projects, most of which can be found around the home or recycled from previous projects – depending on student-chosen design and development. Cooperative teamwork is strongly encouraged to develop social skills while working with other people for a common goal.

Methods of Assessment:
40% Formatives (e.g., classwork, homework, & lab activities)
60% Summatives (e.g., tests, projects, & reports)

NOTE: The teacher may override the final grade if a student’s overall performance warrants it.
DeLand High School
PHYSICS
Course Syllabus

Teacher Name: P. Policke
Course Name: Physics

Term: 2019 – 20
Course #: 2003380

Suggested Materials:
- Organized notebook
- Pens/Pencils
- Flash drive
- Loose-leaf college-ruled paper
- Ruler
- Scientific calculator

Course Objectives:
This course studies the concepts, theories and laws governing the interaction of matter, energy and the forces of nature. The content includes kinematics, dynamics, energy, work and power, heat and thermodynamics, waves, light, electricity, magnetism, nuclear physics, and sound. Laboratory investigations of selected topics include the use of the scientific method, measurement, laboratory apparatus, and safety.

Major Units:
<table>
<thead>
<tr>
<th>1st Quarter</th>
<th>2nd Quarter</th>
<th>3rd Quarter</th>
<th>4th Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science Processes</td>
<td>Newton's Laws</td>
<td>Conservation of Energy</td>
<td>Light &amp; Optical Systems</td>
</tr>
<tr>
<td>Measurement</td>
<td>Momentum</td>
<td>Thermodynamics</td>
<td>Charges &amp; Electric Force</td>
</tr>
<tr>
<td>2D &amp; 3D Motion</td>
<td>Universal Gravitation</td>
<td>Nuclear Power</td>
<td>Direct Current Circuits</td>
</tr>
<tr>
<td>Universal Gravitation</td>
<td>Waves &amp; Vibrations</td>
<td>Magnetism</td>
<td></td>
</tr>
</tbody>
</table>

Students will be expected to complete regularly-assigned homework problems and lab activities.

Major Projects:
Students will research and present information related to topics included in our curriculum. Students will also design, create, and test various design projects that will be used to enhance our curriculum along with integrating interdisciplinary concepts, skills, and applications. Such projects are designed with student input and will be developed during the school year.

NOTE: Students will be responsible for gathering materials for such projects, most of which can be found around the home or recycled from previous projects – depending on student-chosen design and development. Cooperative teamwork is strongly encouraged in order to develop social skills while working with other people for a common goal.

Methods of Assessment:
| 40% | 60% |
| Formatives (e.g., classwork, homework, & lab activities) | Summatives (e.g., tests, projects, and reports) |

NOTE: The teacher may override the final grade if a student’s overall performance warrants it.
Classroom Policies and Procedures

The “Be-Attitudes” to be successful in this class:

**BE PRESENT**
While your grade is not connected directly to your attendance, there has been shown a positive relationship between good attendance and success in this course. The school’s make-up work policy (please refer to the Student Handbook) for assignments missed during absences will be followed, wherein students who do not bring an excuse note within the 2 days of their return to class may be given (an) alternative assignment(s). This excuse note should include the student’s name, alpha code, date(s) of absence(s), reason, and signature of parent/guardian, and submitted to the Attendance Office in the Clinic. If you will be absent for more than 2 days due to illness or family emergency, please consider making arrangements to pick up missed assignments through the main office (tel 386.822.6909).

Also, having only 50 minutes for a lab-based class, we must use our time effectively and efficiently for the lessons and tasks. Please take care of personal matters before school, between class changes, during lunch, or after school.

**BE PROMPT**
Students will be expected to work from bell-to-bell. You should be in your seat or at your station ready to work by the time the tardy bell finishes ringing. Pertinent information is given during the first few minutes of class, so I cannot stress how important it is to be on time to class! It is the responsibility of the student to retrieve missed instructions and assignments, and complete on time. Please review our school’s tardy policy and consequences in the Student Handbook.

**BE PREPARED**
To be successful each and every day, you should have the following items with you in class:

- Organized notebook
- Flash drive (saving work to the computer is not secure)
- Scientific calculator
- Pens/Pencils
- Paper
- Ruler

**BE PRODUCTIVE**
In this era of high accountability, it is my utmost role as the teacher to ensure that each individual has the greatest opportunity to succeed. Therefore, you should respect the rights of yourself and others to learn. Students should pay attention during the lesson, work diligently on assignments, and ask questions as needed.

The following grading scale will be used to determine the letter grade:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90 – 100%</td>
</tr>
<tr>
<td>B</td>
<td>80 – 89%</td>
</tr>
<tr>
<td>C</td>
<td>70 – 79%</td>
</tr>
<tr>
<td>D</td>
<td>60 – 69%</td>
</tr>
<tr>
<td>F</td>
<td>0 – 59%</td>
</tr>
</tbody>
</table>

**CHECK GRADEBOOK REGULARLY!!!**

**Please be sure to review the pre-requisites for each course!**

Requirements will be updated before registration (spring), as needed.

**BE POLITE**
Every student has the right to learn. Therefore, every student should be respected in their pursuit of knowledge. Any student inhibiting this process will be addressed, parent called, and/or referred to the Dean’s Office.

*Students having a Level II offense or higher discipline referral may be prohibited from attending activities.*

*Students having a D or F in any course may be prohibited from attending activities, such as field trips.*

**BE RESPONSIBLE**
YOU are ultimately responsible for your grade and knowledge gained from this course. Ask for help if you need it! If you have an extenuating circumstance or concern, the best time to talk with me is at the end of your class period.

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DeLand High School
Engineering Academy
Course Requirements (Pre-Requisites)

** Subject to change prior to 2020 – 21 Registration **

To participate in Level II (Engineering Technology II and Chemistry):
Overall GPA of 2.5 (weighted) and course GPA of 2.5 in Engineering Technology I.

To participate in Level III (Engineering Technology III and Physics):
Overall GPA of 2.5 (weighted) and course GPA of 3.0 in Engineering Technology II.

To participate in Level IV (Advanced Technology Applications and the Executive Internship):
Overall GPA of 3.0 (weighted), course GPA of 3.5 in Engineering Technology III, successful completion of the Career Shadow, and a passing score on our Internship Qualifying Exam to be given in the spring semester. Students must also have a 3.5 in Adv Tech Apps to participate in Internship.

We also remind students and parents of our Academy’s contract:

1. Adhere to the district’s Code of Student Conduct and our school’s policies and procedures.
2. Maintain acceptable attendance.
3. Maintain at least a 2.5 (3.0 for Level III & IV students) overall grade point average (GPA).
4. Maintain course GPA (2.5 in Level I, 3.0 in Level II, 3.5 in Level III, 3.5 in Adv Tech).
5. Pass Algebra I with at least a 2.5 course GPA.
6. Adhere to the school’s Academic Integrity Policy.
7. Represent the Academy in a positive and respectful attitude at a sponsored function.
8. Work cooperatively, independently, and respectfully and maintained self-discipline and maturity.

Students who do not achieve the pre-requisites for the next level by the end of the school year, or do not meet the standards of our Academy’s contract, will be dismissed from the Academy. If the student is attending DeLand High School on a waiver, and is removed from the Academy, then he/she must withdraw and register at his/her zoned school.

In order to keep on track with performance, please check Gradebook regularly and set appropriate notifications. As you check on grades, please click on the letter grade for the course – this will take you to my gradebook of assignments. Please click on the individual assignment, and you will see information for the assignment written under the Narrative tab.
STUDENT INFORMATION SHEET

Mr. Policke

Student Name ___________________________________________ Alpha Code ___________________ Course _____________________

Parents’ Names __________________________________________ Mailing Address ____________________

Phone Number #1 ___________________________ Phone Number #2 __________________________

The following email address is ok for the teacher to use to relay confidential information with regards to my child’s attendance, behavior, and progress:

Parent Email Address – please print legibly

Tips for Success:

Attendance and promptness to class are important for hearing instructions and keep up with assignments.

Food and drinks are not allowed in class, as these cause safety and sanitary problems.

Being prepared with needed materials will enable you to work efficiently and effectively in class.

Safe and proper use of tools will keep them in good condition and harm away from you and your peers.

Appropriate use of computers will ensure educational access for all students throughout the day.

Students who want to participate in out-of-class activities should not have poor behavior or grades.

Gradebook is a valuable tool to monitor progress and review instructions for assignments.

We have reviewed the Syllabus and Expectations for this course (visit http://www.delandhs.org), along with the Pre-requisites and Contract for this program.

Student Signature ___________________________ Parent Signature ___________________________ Date ____________

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Volusia County Schools
Public Release Form – Parent Authorization

School: DeLand High School  Student ID: _______________

Student Name (please print): ______________________________________________________

Throughout the school year, your child may be photographed, interviewed, videotaped and/or sound recorded by school district personnel and/or news reporters or other members of the media. These photographs, interviews, videotapes and/or sound recordings may be viewable by the public and/or within the school district through a variety of media, including, but not limited to, websites, television, radio and print. By signing this form, you are authorizing all the above actions. Please also be aware that where a student activity, function, or event is open to the public, and your child is participating, photographs, interviews, videotapes and/or sound recordings may occur without a public release being signed.

In addition, your child may participate in and/or create a variety of products or work, including, but not limited to, art, literature, video recordings, sound recordings, photographs and/or computer programs, hereinafter referred to as “student work.” By signing this form, you authorize the School District to publicize your child’s “student work” in various ways, including but not limited to publications, collections, exhibits and displays, and other media productions.

It is also recognized that once the photograph, interview, videotape and/or sound recording of the student, and/or the “student work” (hereinafter all collectively referred to as “student image/work”) is released to the public, the School District cannot control how what has been publicized may be used or represented by others. By signing this Public Release, you hereby release the School Board of Volusia County, its members, employees, agents and representatives (hereinafter referred to as the “Board’s Releasees”) from any and all claims they may have against the Board’s Releasees due to the School District having publicized or allowed the publicizing of the “student image/work” as described in this form, and from any and all liability that may arise from publicizing the “student image/work” or allowing the “student image/work” to be publicized, as described in this form.

Should you at any time wish to revoke the authorization given by the execution of this form, you may do so by informing the school which the student attends, in writing, that you are revoking that authorization.

Parent/Guardian Signature ___________________________ Date ________________

Name of Parent/Guardian (please print) ____________________________

After you have read and signed the permission form, please return it to your child’s school. This form will be retained at the school. If you do not wish to grant permission, please write a big NO across this page so I know you have reviewed it, but do not grant permission. Thank you.

Revised 02/10/11
Owner: Community Information
Print Locally