Pitt State Pathway
(Undergraduate Course Numbers through 699)

Please check only one:

- Course is currently a “General Education” course.
- Course is listed in the current catalog, but is NOT a “General Education” course.
- New course that is NOT listed in the current catalog and has NOT been legislated through PSU Faculty Senate and/or KBOR.

A. Submission date: December 14, 2018

B. Department: Technology & Workforce Learning

C. College: Technology

If two or more Colleges, please indicate which Colleges will be involved in teaching the course:

Click or tap here to enter text.

D. Name of faculty member on record for the course (may be Coordinating Professor or Chair):

Matthew Brown
(As faculty of record, I verify all sections agree to address the Core or Essential Studies Element and corresponding Learning Outcome as indicated below.)

E. Course prefix: GT

F. Course number: 190

G. Credit hours: 2

H. Title of course: Introduction to Technological Systems

Is this a change in the title of the course? No
(If “Yes,” a Revision to Course or New Course form will need to be completed and uploaded to the Preliminary Briefcase and will go through the legislation process.)

I. Will this course require a new course description? No
(If “Yes,” please insert new course description here. A Revision of Course or New Course form will need to be completed and uploaded to the Preliminary Briefcase and will go through the legislation process.)

Click or tap here to enter text.

J. Does this course include a co-requisite laboratory course: No
If “Yes”, please provide the co-requisite course name and number:

Click or tap here to enter text.

K. Will this course be available on-line: No
If “Yes”, please provide a detailed explanation: Click or tap here to enter text.

L. Semester(s) course will be offered (choose all that apply): Fall and Spring

M. Prerequisite(s): None

N. Co-requisite(s)—other than lab course named above: None
O. Select the Pitt State Pathway Core Element or Essential Studies Element based on the identified Learning Outcome to be covered in the course (choose only one set):

(Refer to definitions, hierarchy, and rubrics in the Pitt State Pathway document.)

Select Only One Element

- Communication
  - Written Communication
    - Students will communicate effectively.

- Communication
  - Verbal Communication
    - Students will communicate effectively.

- Quantitative/Analytic Methods and Scientific Literacy
  - Quantitative/Analytic Methods
    - Students will analyze data logically.

- Global Understanding and Civic Engagement
  - Human Experience within a Global Context
    - Students will explore global systems conscientiously.

- Global Understanding and Civic Engagement
  - Human Systems within a Global Context
    - Students will explore global systems conscientiously.

- Global Understanding and Civic Engagement
  - Natural World within a Global Context
    - Students will explore global systems conscientiously.

- Personal and Professional Behavior
  - Wellness Strategies
    - Students will model productive behaviors purposefully.

P. Will the course address a Companion Element? Yes
(Refer to definitions, hierarchy, and rubrics in the Pitt State Pathway document.)

If “Yes,” please select one: Social Responsibility within a Global Context

Q. What is the highest anticipated level of student achievement for the stated learning outcome(s) common across all sections of the course? Note: Sample assessment strategies will be submitted on the representative syllabus. Milestone I
(Refer to definitions, hierarchy, and rubrics in the Pitt State Pathway document.)

R. Please submit course syllabus as an attachment, highlighting the following items: course objectives related to Learning Outcome(s), assessment strategies (e.g. exams, course project, etc.), and/or sample assessment tool(s) to be used to measure student achievement.

The Careers out of assignment questions 20 & 21 are a sample assessment of this Milestone I achievement.
Legislative Process
Authorization and Notification Signatures
(Electronic signatures accepted)

Department Chairperson ................................................................. Approved ☑ Not Approved ☐

[Signature]

Department Chairperson Signature

12/14/18

Date

Faculty Senate General Education Committee ........................................... Approved ☐ Not Approved ☐

[Signature]

Faculty Senate General Education Chairperson Signature

Date

Faculty Senate ................................................................. Approved ☐ Not Approved ☐

[Signature]

Faculty Senate Recording Secretary Signature

Date

Note: Each College curriculum representative will notify their respective College and Department(s) of the completion of the approval process.

*Originating Department: Please complete the entire form, acquire the Chairperson's signature, and email to psupathway@pittstate.edu,
COLLEGE OF TECHNOLOGY
PITTSBURG STATE UNIVERSITY
Fall 2019

Course Number: GT 190-02,03,04,05  Title: Introduction to Technological Systems
Credit Hours: 2  Course Time Schedule: 8:00/9:30/11:00 a.m./2:00 p.m. TTH
Instructor: Matthew Brown  email: mbrown@pittstate.edu
Office: S206 KTC  Office Phone: (620) 235-4023

Office Hours:  
Monday: 9:00 a.m. – 12:00 p.m.  Wednesday: 8:00 a.m. – 12:00 p.m.
1:00 p.m. – 2:00 p.m.  1:00 p.m. – 2:00 p.m.
Tuesday: 7:30 a.m. - 8:00 a.m.  Thursday: 9:00 a.m. - 9:30 a.m.
9:00 a.m. - 9:30 a.m.  10:30 a.m. - 11:00 a.m.
10:30 a.m. - 11:00 a.m.
Friday: 10:00 a.m. – 11:30 a.m. or by appointment (phone or e-mail)

COURSE DESCRIPTION
An introductory study of the systems of technology as applied in Communication, Manufacturing, Construction, Power/Energy/Transportation, and Bio-Related technologies: including their organization, techniques, resources, products, evolution and impact on society in a global context. Format is primarily lecture, guest speakers, assignments and tests.

PREREQUISITE
None

PURPOSE OF THE COURSE
The purpose of this course is to provide students with information and experiences that will make them more technologically literate.

COURSE OBJECTIVES

Introduction to Technological Systems Specific Course Objectives

Upon completion of the course, in global context students should be able to:
1. Recognize and explain the pervasiveness of technology in everyday life. (K1)
2. Explain basic engineering concepts & terms such as systems, constraints, and trade-offs. (K2)
3. Describe the nature of limitations of the engineering design process (K3)
4. Describe some of ways technology has shaped human history and how people have shaped technology (K4)
5. Identify that all technology entails risk, only some of which can be anticipated (K5)
6. Appraise the development and use of technology using concepts like trade-offs, costs, and benefits. (K6)
7. Describe how technology reflects the values and culture of society (K7)
8. Perform as competent and responsible technologically literate people as they carry out their daily functions as an informed consumer, user and citizen. (C1, C2, C3)
9. Apply basic mathematical concepts related to probability, scale, and estimation to make informed judgments about technological risks and benefits. (C3)
10. Use the design-thinking process to solve a problem encountered in daily life (C4)
11. Assess information about technological issues of concern from a variety of sources (C5)
12. Develop pertinent questions, of self and others, regarding the benefits and risks of technologies (CT&DM1)
13. Evaluate available information about the benefits, risks, costs, and trade-offs of technology in a systematic way (CT&DM2)
14. Participate, when appropriate, in decision about the development and uses of technology (CT&DM3)
REQUIRED TEXT AND MATERIALS


(For the Fall 2018 semester, the Library has purchased two copies of the required GT 190 textbook for students to place on reserve at the KTC Library (S 221). Each textbook will be available for a two-hour checkout during the KTC Library hours of operation (Sunday: 6:00-10:00 p.m., Monday – Thursday: 8:00 a.m. – 10:00 p.m. & Friday: 8:00 a.m. – 5:00 p.m.). This isn’t to discourage students from acquiring their own copy of the textbook, but simply, to support student success in every possible way.

2. 1 - 1" three ring presentation binder (for supplementary resource materials, handouts, and notes) [Recommended]

INSTRUCTIONAL RESOURCES


2. Periodicals and books in libraries; information sheets; other video presentations and visual aids; and lab material and equipment.

TEACHING STRATEGIES/METHODS

To achieve the instructional objectives of the course, the instructor will employ lecture, discussion, demonstrations, and student oral and written responses. In addition the instructor will rely on the PSU online CANVAS system to help supplement classroom instruction, and the instructor may also employ some combination of other instructional methods including but not limited to:

- technology-related in-class activities
- problem solving/creative thinking
- worksheets
- outside-class computer activities
- cooperative learning methods
- outside speakers
- video presentations
- integrated academics
- out-of-class responses and readings
- online course supplementation

REQUIREMENTS FOR COURSE

Successful completion of tests, final, and related assignments.

GENERAL SAFETY RULES:

1. Accept the “zero accident” philosophy when working with and around technology.
2. Approved hardhats, safety glasses, hearing protection and/or shoes should be worn anytime necessary, and approved safety glasses must be worn in all KTC labs.
3. All clothing worn should be in accordance with general work and safety practices such as:
   - Do not wear clothing that could get caught in machinery or otherwise cause an accident (such as dragging or baggy pants, torn or loose long sleeves, loose neck jewelry and rings).
     - Shirts with sleeves are to be worn at all times and must cover the shoulders and torso.
     - Tank tops and football type net shirts are not acceptable.
   - Pants must be full length (no cut-offs or shorts).
   - Shoes or boots must be of sturdy leather, thick-soled and cover the ankle.
     - Dress shoes, athletic shoes or sandals are not acceptable.
4. Use tools, equipment, and personal protective equipment the way they were designed.
5. Inspect tools and equipment prior to use.
   - Do not use damaged or unsafe tools and equipment. Damaged tools and equipment shall be removed from service until fully repaired or replaced.
6. Only perform tasks for which you have been trained.

Fall, 2019
7. Correct or report all unsafe conditions immediately to a course instructor.
8. Everyone has the right to refuse to perform work which is believed to be unsafe. Explain your concerns to a course instructor.
9. Good housekeeping requires the attention and cooperation of all involved. Pick up tools, store materials properly, and pick up trash daily.
10. Safety is everybody’s business. Suggestions are welcomed and shall be directed to the course instructor.

EVALUATION - Grades will be awarded strictly based on total points earned, not by percentage.

Overall Evaluation (Grades will be reported on Canvas)
1. Student is graded on ability to answer questions on objective tests.
2. Student is evaluated on the completion and quality of assigned work.
3. Student is judged on basis of participation in class and cooperation in activities and quizzes.

EVALUATION CRITERIA

Grading System

| Tests 1, 2, & 3 (75 pts. each) | 225 points - 30% of Overall Grade | 750 - 672 points | 100-89.5% = A |
| Out-of-Class Assignments | 225 points - 30% of Overall Grade | 671 - 597 points | 89.4-79.5% = B |
| In-class Assign. & Quizzes | 200 points - 27% of Overall Grade | 596 - 522 points | 79.4-69.5% = C |
| Final | 100 points - 13% of Overall Grade | 521 - 447 points | 69.4-59.5% = D |
| TOTAL = 750 points | | 446 - 0 points | 59.4-0% = F |

Notes concerning evaluation criteria:

1. **Attendance:** There are no excused or unexcused absences. Students are expected to be “on time” and ready to begin class at the published start time for the class. Late arrivals and early departures will be counted as absent. Students are expected to attend class regularly. More than 3 absences is considered excessive in a class that meets 2 days per week. **Students with excessive absences may be dropped.** Students may attend a different class covering the same topic to make-up absences, but prior arrangements must be made with the instructor.

2. **Tests:** Tests will be administered online using Canvas. Online Canvas tests are open book and open note and can be taken as many times as the student would like with the last COMPLETED score being the student’s final grade on the test. Students are required to complete each test by the due date and time listed in the course schedule. If the test is not completed within the allotted time, a Zero (0) will be entered as the grade. Numerous computer labs are available on campus; therefore, no computer or problems with your personal computer are UNACCEPTABLE excuses.

3. **Final:** A written, **IN-CLASS, COMPREHENSIVE** final will be given during finals week. The final will be a no laptop/tablet/phone, closed book, closed notes 100 point test, and students may attend any of the final times identified on the course schedule. **Finals will NOT be given early, or in the instructor’s office or at any other times than those identified on the course schedule.** The instructor will provide the ScanTron© and paper final. All the student needs to bring is a #2 pencil.

4. **Out-of-Class Assignments:** All out-of-class assignments are expected to be completed individually and not in violation of the academic misconduct policy set forth by the university. Out-of-class assignment due dates are listed in course schedule, and out-of-class assignments will be submitted at the beginning of class in hard copy and/or in electronic form through Canvas as indicated in the course schedule. Out-of-class assignments turned in later than the due date indicated in the course schedule will be considered late. **Late assignments will be reduced by 50%**. Out-of-class assignments may be turned in early.
5. **In-Class Assignments & Quizzes:** During certain class periods, multiple choice, fill in the blank, matching, and short answer in-class assignments and quizzes worth between 5 and 10 points will be given over previously covered or daily lecture material. These in-class assignments and quizzes will be open note and open book and will be designed to check each student’s comprehension of course the material in class. Also these in-class assignments and quizzes will give students an idea of what types of questions to expect on the unit tests and final. If the student misses an in-class assignment or quiz, the student can attend a different class period covering the same topic to make up the in-class assignment or quiz, but arrangements **MUST** be made with the instructor **PRIOR** to attendance. **Under NO other circumstances can in-class assignments and quizzes be made up or turned in late for credit.**

6. **Extra Credit Assignments:** There will be a few extra credit opportunities throughout the semester explained in detail as those extra credit opportunities become available, but no extra credit points will be figured into the student’s grade until after the last final is given for all classes on **Dec. 13**th.

7. **Class Writing Policy:** When submitting any response (be it a discussion post, an essay, a homework answer, etc.) the student must use complete sentences and proper spelling and grammar. Common errors include: misspellings, forgetting to capitalize the beginning of a sentence, forgetting to capitalize the letter “I” in reference to yourself, etc. Students should always run a “spellcheck” and carefully review responses before submitting an assignment. **The student will lose available points for writing errors.** For assistance with the basics of writing, please go to the PSU Writing Center located at 210 Hartman Hall, contact them at 620-235-4694 or schedule a visit at www.pittstate.mwconline.com.

   - **PSU Writing Center:** 112 Axe Library
   - **Email:** writingcenter@pittstate.edu
   - **Schedule an appointment:** Monday – Thursday 9:00 a.m. – 6:00 p.m.
   - **Walk-ins Welcome:** Monday – Thursday 6:00 p.m. – 10:00 p.m.

**Additional Information:**

- If a student is absent for whatever reason, it is the student’s responsibility to get notes off Canvas, from other students or from the instructor. Also if a student is absent for whatever reason, it is the student’s responsibility to have out-of-class assignments and tests completed and/or turned in on time according to the dates listed in the course schedule.
- Only electronic devices being used for in-class activities or assignments are allowed to be used during class. If the student is not using an electronic device for a class activity or assignment, it needs to be put away. Cell phones must be placed on silent when class begins.
- Announcements, reminders, notifications, and grades will be posted on CANVAS regularly.

**Cheating and plagiarism will not be tolerated. Students are expected to complete assignments individually and responses should be “in your own words”. Students failing to follow the guidelines of academic conduct may receive an F for the course.** Plagiarism is defined as using ideas or writings of another and claiming them as one’s own. Copying any material directly (be it the work of other students, professors, or colleagues) or copying information from print or electronic sources (including the internet) without explicitly acknowledging the true source of the material is plagiarism. Plagiarism also includes paraphrasing other individuals’ ideas or concepts without acknowledging their work, or contribution. To avoid charges of plagiarism, students should follow the citation directions provided by the instructor and/or department in which the class is offered.

- For more information regarding Academic Integrity, please refer to http://catalog.pittstate.edu/contentm/blueprints/blueprint_display.php?bp_listing_id=162&blueprint_id=124&sid=1&menu_id=7980
Additional semester information about (including the following Academic Integrity Policy link above and the Weapons and Concealed Carry Policy link below), campus resources, expectations, notifications, severe weather, grades, semester important dates, the approved Dead Week Policy, etc. can be found at:
https://www.pittstate.edu/registrar_files/documents/syllabus_supplement.pdf

**Weapons and Concealed Carry Policy:**
Weapons Policy website  [https://www.pittstate.edu/police/policies.html#undefined1](https://www.pittstate.edu/police/policies.html#undefined1) & [https://www.pittstate.edu/police/policies.html#undefined2](https://www.pittstate.edu/police/policies.html#undefined2) and Concealed Carry Weapons Policy [https://www.pittstate.edu/police/_files/documents/Concealed-Carry-Weapons-Policy.pdf](https://www.pittstate.edu/police/_files/documents/Concealed-Carry-Weapons-Policy.pdf)
The handgun must be in the person's custody and control at all times with safety mechanism engaged. Handguns must be carried securely in a suitable carrier (backpack, purse, handbag, or other personal carrier designed and intended for the carrying of an individual's personal items). The suitable carrier must at all times remain within the exclusive and uninterrupted control of the individual. This includes wearing the carrier with one or more straps consistent with the carriers design, carrying or holding the carrier, or setting the carrier next to or within the immediate reach of the individual.
COURSE CONTENT

I. Introduction to Technology
   A. What is the Definition of Technology?
   B. Problem Solving & Engineering Design
      1. Problem Solving Process
      2. Engineering Design

II. Careers and Opportunities in Technology

III. Communication Technology
   A. Communication Systems – Definition, Description, Systems Model, History, Impacts, Trends
   B. Information Technology – Word Processing, Desktop Publishing, CAD and Graphics, Internet
   C. Graphic Communication – Visual Design, Printing, Photography, Drafting/Design

IV. Manufacturing Technology
   A. Manufacturing Systems – Definition, Description, Systems Model, History, Impacts, Trends
   B. Production & Modern/Emerging Manufacturing Techniques & Technologies
   C. Manufacturing Materials & Processes
   D. Product Design & Development

V. Environment & Technology
   A. Green Technology
   B. Goals of Green Technology

VI. Construction Technology
   A. Construction Systems – Definition, Description, Systems Model, History, Impacts, Trends
   B. People in Construction & Financial Terms for the Future Homeowner
   C. Preparing & Managing Construction
   D. Building Homes and Other Structures
   E. Other Construction Projects

VII. Power & Energy Technology
   B. Different Types of Energy Sources

VIII. Transportation Technology
   A. Transportation Systems – Definition, Description, Systems Model, History, Impacts, Trends
   B. Types and Modes of Transportation – Air/Space, Water, Land & Intermodal Transportation
   C. Vehicle Automotive Technology Literacy for Consumers
   D. Alternative & Renewable Fuels

IX. Bio-Related Technologies
   A. Bio-Related Systems – Definition, Description, Systems Model, History, Impacts, Trends
   B. Applications of Bio-Related Medical Technology
   C. Applications of Bio-Related Agriculture Technology
   D. Ergonomic & Bio-Related Waste Management

X. Technological Literacy for All Americans
   A. What is technological literacy?
   B. Why be should we be technologically literate?
# Fall 2018 Finals Schedule

**Monday, December 10**

<table>
<thead>
<tr>
<th>Classes scheduled for:</th>
<th>Examinations will be held:</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 MWF</td>
<td>10:00-11:50</td>
</tr>
<tr>
<td>10:00 MTWTF</td>
<td>10:00-12:50</td>
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<td>3:00 MWF</td>
<td>3:00-4:50</td>
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**Tuesday, December 11**

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<th>Classes scheduled for:</th>
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<tbody>
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<td>8:00 TT</td>
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<tr>
<td>11:00 TT</td>
<td>11:00-12:50</td>
</tr>
<tr>
<td>2:00 TT</td>
<td>2:00-3:50</td>
</tr>
<tr>
<td>MATH 110 College Algebra with Review and MATH 113 College Algebra (all sections)</td>
<td>4:00-5:50</td>
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**Wednesday, December 12**

<table>
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<td>11:00-12:50</td>
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<td>11:00 MTWTF</td>
<td>11:00-1:50</td>
</tr>
<tr>
<td>2:00 MWF</td>
<td>2:00-3:50</td>
</tr>
<tr>
<td>2:00 MTWTF</td>
<td>2:00-4:50</td>
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**Thursday, December 13**

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<tr>
<td>9:30 or 10:00 TT</td>
<td>9:30-11:20</td>
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<tr>
<td>12:30 or 1:00 TT</td>
<td>12:30-2:20</td>
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<tr>
<td>3:00 or 3:30 TT</td>
<td>3:30-5:20</td>
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**Friday, December 14**

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<th>Classes scheduled for:</th>
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**Evening Classes**

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<tr>
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<td>Tuesday, December 4</td>
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<tr>
<td>Wednesday night classes</td>
<td>Wednesday, December 12</td>
</tr>
<tr>
<td>Thursday night classes</td>
<td>Thursday, December 13</td>
</tr>
</tbody>
</table>
Directions: Please number all your answers in a type-written document, (A HAND-WRITTEN DOCUMENT WILL NOT BE ACCEPTED FOR ANY CREDIT).

First Impressions – 7 Points Total
Complete this first 6 questions of the assignment below without looking up any information or calculating exact amounts. If you were present for the in-class assignment during the “Careers” presentation you may repeat the numbers you gave on that in class-assignment for the first six questions below.

1. What degree (include major or emphasis) will you receive when you graduate with from PSU? If you are undeclared, select something you have been considering. If you are planning on going to graduate school somewhere else, please complete this assignment like your plans changed and you needed to get a job with the Bachelor’s degree earned at PSU. 1pt.
2. When your finish with your Bachelor’s degree at PSU and obtain that first job, what will your job title be? 1pt.
3. Give your best guess on how much do you believe you will earn that first year? 1pt.
4. Without using a calculator, what is your best guess about how much you will earn per week? 1pt.
6. How many hours per week do you believe your employer will expect you to work to earn your yearly salary identified in #2? Why? 2pts.

Occupational Outlook Handbook – 13 Points Total
Using the Occupational Outlook Handbook (https://www.bls.gov/ooh/) pick the occupation group most closely related to your chosen career in the “First Impressions” question #1 above. Then select an occupation from the table of occupations provided. (You must choose one career even if it’s not your “real world” career choice, you may need to think more broadly. Example: “Automotive Parts Manager” may need to look at “Sales Manager”). Copy the web address to be included with each and every answer.

How to Become a ________________________________ 2pts.
Job Outlook:

7. How fast is the field projected to grow? How is this compared to other occupations? 3pts.
8. What are the job prospects or how many jobs are there in the field? 2pts.
9. What can you do to make yourself more marketable when getting that first job? 2pts.

Earnings:

10. What was the median wage? 2pts.
11. Keeping in mind that most new employees are paid less than those in the career for many years, how much did the lowest 10% earn? (This is probably a more realistic starting wage) 2pts.

<Assignment is continued on the next page>
Pittsburgh State Career Services – 9 Points Total
Using the Pittsburgh State Employment Data Report FY16: https://careers.pittstate.edu/about-us/employment-data-report.html obtained from the Pittsburgh State University Career Services website https://careers.pittstate.edu/ answer the following questions about the college and area which will confer your degree. Make sure you are using the correct information for the degree you are pursuing (example: Don’t use graduate student information unless you are currently a graduate student. If you are a student pursing certification or an associate degree, make sure you are on the correct page.)

12. How many graduates with the same Bachelor’s degree as you reported full-time employment? 2pts
13. How many graduates, who were contacted are currently seeking employment, reported they were neither employed nor attending graduate? 2pts.
15. Using the “Salary Data” table from FY16, what is the earnings range for the largest percentage of graduates? 2pts.

Reflection: 2-4 paragraphs typed – 16 Points Total
Type an essay (answers must be in complete sentences) which includes your personal reflection on the information found at these websites. At a minimum, you need to answer the following questions in your reflection:

16. Describe your comparison of the information on “First Impressions” to the information found on the websites. 2pts.
17. Describe the comparison of the wage information from the Occupational Outlook Handbook to the wage information from Pittsburgh State’s Employment Survey. Are there differences, if so, why do you think the differences exist? 3pts.
18. How do these numbers compare with what you thought you would earn during your first year of employment? 2pts.
19. What skills or knowledge related to technology might increase your success rate for finding that first job? What might be needed to perform or advance in your career? 3pts.
20. Do you think that there might be employment opportunities internationally in this career? Why or Why Not? 3pts.
21. If you don’t land that first job quickly after graduation would you consider working in this career field in a different county than your country of origin? Why or Why Not? 3pts.