

**BREVARD COMMUNITY COLLEGE
AEROSPACE TECHNOLOGY PROGRAM**

COURSE:

ETIC 2411 Technical Task Analysis / implementation
Credits: 3
Contact Hours: 48
Class Hours: 0800 – 1100
Location: BCC Cocoa Room 129 – Thursday

PRE-REQUISITES:

Last Semester / Instructor Permission

INSTRUCTOR:

CONTACT DATA:

TEXTS:

Text not required

COURSE DESCRIPTION:

A capstone course in the Aerospace Technology Program. This course applies the knowledge and skills acquired in previous classes through project completion. Tools, equipment, supplies, processes, and materials are selected and used as required for a given task.

COURSE COMPETENCIES:

- Upon completion of the course the student will be able to:
1. Explain processes of critical thinking
 2. Develop and complete a Capstone Project
 - a. Evaluate a given job
 - b. Complete design review
 - c. Identify essential personnel for a given job
 - d. Select appropriate materials and supplies for a given job
 - e. Select appropriate equipment for a given job
 - f. Develop a project schedule
 3. Determine test and evaluation requirements for project, complete test plan
 4. Develop test/operational documentation a required for project
 5. Explain failures, failure review processes and impact of unverified failures

6. Submit lessons learned report from project
7. Apply troubleshooting skills where necessary
8. Identify and take corrective action where necessary

COURSE WORK:

Week 1	Introduction: Expectations, Creative Thinking (Weekly bring news article brief on Project Management to discuss with class. Maximum one year old.)
Week 2	Creative Thinking vs. Critical Thinking:
Week 3	Problem Solving: Project assignments (individual and group assignments)
Week 4	Project Management: Definition, Processes, Life Cycles, Mile Stones, Deliverables, Stakeholders
Week 5	Project Management/Job Evaluation: Methodologies, Ten steps to managing your project, Define project
Week 6	Resource Planning/Establish Team Roles: Lab time for individual assignments
Week 7	Project Definition Presentations/Mid-Term Review: Power Point presentations (individual and group)
Week 8	Mid-Term Exam: Written exam,
Week 9	Control and Execution: Project status briefing
Week 10	Communications Plan/Keeping Your Project on Track: Test plans, Project status briefing
Week 11	Conflict Management: Project status briefing
Week 12	Project Performance/Project Lab: Project status briefing
Week 13	Risk Identification and Analysis/Project Lab: Project status briefing
Week 14	Project Closing Procedures/Project Lab: Identify risks of project, Project status briefing
Week 15	Project Lab: Complete project
Week 16	Final Exam/Final Project Reports: Written exam, Project reports and presentations due.

(Course work subject to change with allotted time)

PROJECTS:

Developing procedures and managing the process to given tasks through completion will be a requirement for this course. You will be assigned specific technical tasks to be completed by semesters end. The primary task, according to your team assignments will consist of a series of subtasks to be completed, reviewed, and graded at various milestones throughout the semester. The project will focus on fulfilling the above stated performance objectives of this course.

GRADING PROCEDURES:

Classroom Performance	10%
(Participation, Attentiveness, Professionalism, Teamwork)	
Laboratory Performance	10%
(Ability to Perform Tasks Safely and Maintain Clean Area)	
Mid-Term Exam	15%
(Written Examination)	
Projects	50%
(Individual and Team Score)	
Final Exam	15%
(Written Examination)	

Grades:	90 to 100	A
	80 to 89	B
	70 to 79	C
	60 to 69	D
	Below 60	F

ATTENDANCE POLICY AND WITHDRAWL POLICY WILL BE IN ACCORDANCE WITH THE STUDENT HANDBOOK AND COLLEGE CATALOGUE.