



SYLLABUS
AFAB-1122-1,
Spring 2017
Production Systems

COURSE DESCRIPTION

The course is designed to give students with basic aerospace fabrication skills the necessary knowledge and practical experience to perform effectively and grow professionally in an aerospace production organization. The course will introduce the student to the many functional groups that manage, design, plan, schedule, supply, and oversee aircraft production operations. Students will gain experience with production and quality standards, process controls, and documentation requirements through lecture and participation in various projects and activities.

COURSE INFORMATION

Class Time	M 2:00
Class Location	Aero Lab, TS-100
Credits	2 SCH
Requisites	Production Systems

INSTRUCTOR

Instructor	Mr. Greg Ferringer
Phone	501-622-4262
E-mail	gferringer@np.edu
Office	TS-100
Office Hours	Outside of Class hours contact me by email.

TEXT & MATERIALS

- Pencil/pen and loose-leaf paper.

ASSURANCE OF LEARNING

Instructional methods

This course will incorporate a variety of teaching and learning methods - lectures, readings, lab exercises, lab work, video clips, group/field projects, peer teaching, etc

General Educational Outcomes

Upon successful completion of any degree at National Park Community College, the student will

- Communicate effectively by demonstrating proficiency in the English language, utilizing appropriate communication technology, and presenting ideas and information orally and in writing.
- Reason scientifically and quantitatively by demonstrating knowledge of mathematical and scientific principles, applying these principles to solve problems, interpreting information presented in graphic form, and by applying scientific methods to the inquiry process.
- Think critically as demonstrated by the ability to read, understand, analyze complex ideas, locate, evaluate, and apply research information, draw inferences from facts and evaluate and present well-reasoned arguments.
- Develop a global perspective which empowers the student to recognize commonalities and differences among cultures, examine the significance of diversity in social interaction, interpret events and values within a given context.

Course Specific Outcomes

Upon completion of the course, the student will:

- The course will introduce the student to the many functional groups that manage, design, plan, schedule, supply, and oversee aircraft production operations.
- Students will gain experience with production and quality standards, process controls, and documentation requirements through lecture and participation in various projects and activities.
- Demonstrate effective teamwork skills through the successful completion of the group final project.
- Demonstrate good time management through timely completion of all written assignments and the final project.

Progress on achieving these objectives will be measured through the completion of assignments inside and outside the classroom, participation in discussions and lab work, and periodic quizzes and examinations.

COURSE REQUIREMENTS

Assignments

Problems and textbook problems will be assigned to provide additional practice on the concepts. These assignments may be collected and graded to provide feedback.

Quizzes

Announced or unannounced quizzes may be given. Makeup quizzes are at the discretion of the Instructor.

Examinations

There will be 3 to 5 examinations worth 100 points each. Students will be required to take the exams in class or in a proctored environment. Alternative testing sites are acceptable but **MUST BE APPROVED BY THE INSTRUCTOR PRIOR TO THE EXAM**. Exams will consist of problems, fill-in-the-blank, and short essay.

Final Exam

There will be a final comprehensive assessment of the course material worth approximately 100 points.

Lab requirements (if appropriate)

What has to be accomplished in lab? What sort of testing, participation, skills.

Evaluation

Your grade will be determined by your relative performance on the following:.

Exams	30%
Homework/Quizzes.....	20%
Projects	20%
Comprehensive Final.....	20%
Attendance/Participation	10%
Total	100%

Grading Scale:

A	90% - 100%
B	80% - 89%
C.....	70% - 79%
D	60% - 69%
F.....	59% or Below

Daily Class Outline

Time	Activities
6:00	Take Roll Quiz (if planned) Review and answer questions from previous day Turn in homework instruction and/or demonstration, Class/project work assignments
7:00	10 minute break
7:10	Continue instruction and Class/project work assignments
7:45	Stop instruction and class/project work Turn off computers Clean up work area and classroom

COURSE POLICIES

Student Responsibility

Students are responsible for reading the textbook material and completing homework assignments on time, documenting their lab projects, writing assigned technical research reports, and keeping a notebook to document their learning progress. Points will be deducted for work that is turned in late! A dedicated 3-ring binder is recommended for the Basic Electricity notebook.

Attendance policy

The College assumes that regular class attendance is essential to its academic operations. Students not attending regularly scheduled classes are considered absent. Faculty members have the responsibility to deal with absences, to decide makeup work required, if any, and to drop students for absences that exceed the instructor's policy. Students are personally responsible for the academic consequences of a poor attendance record.

Students may be administratively dropped if they fail to do ALL of the following:

- 1) Attend at least 85% of class meetings to date
- 2) Satisfactorily complete at least 85% of all assignments, quizzes, exams, online discussions, etc.
- 3) Make satisfactory academic progress

Cell Phone Policy/Classroom Etiquette

- Pagers, cell phones, iPods, MP3 players and other electronic devices shall be turned off or on mute during classroom and shop/lab hours.
- Sleeping is not allowed during class/lab hours.
- Eating of snacks and/or food is not allowed in class. Food and drink containers must remain closed at all times in the classroom.

- Proper interpersonal courtesy and decorum will be maintained at all times. Disruptions, personal outbursts, tantrums and abusive and/or foul language are not allowed at anytime in the classroom or any academic environment.
- Students who do not follow the above guidelines, or who are disruptive during class, will be asked to stop the disruptive behavior and given a warning. A third warning will result in the student being temporarily suspended from the class that day and the day following. (See temporary suspension guideline below.) The temporary suspension for the day and the day following will be counted as unexcused absences.

Laboratory Policy/ Shop Rules

At all times, students are expected to comply with all Shop Rules. Clothing should be worn that is appropriate for Aerospace production environments. No short pants or open toed shoes are allowed in the laboratory.

Personal Safety

1. Absolutely no horseplay of any kind.

General Rules

1. You may have water-bathroom calls at any time during the class. Just leave and come back. Never-ever leave the laboratory/shop building without informing the instructor.
2. Always see the instructor or e-mail/call him with a problem or question prior to elevating it to the professor and/or dean.
3. Always obtain permission to enter the laboratory/shop's tool crib. Never-ever enter without permission. This is for your protection.
4. Cell phones must be on vibrate during class at all times. Special note: If you have to have it on ring tone for emergency purposes do so. Just inform the instructor. Do not text during class lectures-demonstrations. Do not play games. Do not play music (i-pods).
5. Always be mindful of the whereabouts and control of your tools. Tool control is a major concern of the aircraft companies.
6. Bring worn or broken tools to the instructor for replacement. Place broken drill bits into the drill bit bucket and obtain a new one from the cabinet.
7. Ensure that all scraps that are useable go into the usable bin. Unusable scraps go into unusable bin.

Make-up Policy

Make-ups on regular exams will be given at the instructor's discretion. It is the student's responsibility to work this out with the instructor. If an exam date is missed, the student must provide a written request for makeup work. Any supporting documentation may be attached. Any missed projects; quizzes, discussion board postings, papers, and any other class assignments may be made-up only at the discretion of the instructor.

Academic Integrity

Students are responsible for familiarizing themselves with the College policies on academic integrity. Any instance of academic dishonesty, especially cheating or plagiarism, will be dealt with harshly and may result in failure on the exam or assignment, failure in the course, or dismissal from the College.

ADA statement

Students with Disabilities: It is the policy of National Park Community College to create inclusive learning environments. If there are aspects of the instruction or design of this course that result in barriers to your inclusion or to accurate assessment of achievement—such as time-limited exams, inaccessible web content, or the use of non-captioned videos—please notify the instructor as soon as possible, preferably during the first or second week of class. Then, it is the student’s responsibility to contact the campus Disability Specialist, Audrey Annette Smelser, to verify disability and to request one or more accommodations. Students should contact the Disability Specialist by telephone at 501-760-4227 (v/tty) or via email at asmelser@npcc.edu. For more information, visit the Disability Services website at http://www.npcc.edu/Students/StudentServices/student_services_description.htm#Disability

Legal Disclaimer

The schedule, policies, and assignments in this course are subject to change in the event of extenuating circumstances or by mutual agreement between the instructor and the students. The instructor will always inform the students of any changes in a timely manner.

Personal Contact Information & Program Interest Information Sheet

(PLEASE PRINT)

NAME:		PHONE:
ADDRESS:		CITY:
STATE:	ZIP:	ALTERNATE PHONE:
EMERGENCY CONTACT:		
EMERGENCY PHONE:		
EMAIL:		

What are your personal goals for this program?

What are your career goals in Aerospace?

How Did You Know About the AFAB Program?

- | | |
|--------------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Radio | <input type="checkbox"/> Triumph Airborne Employee |
| <input type="checkbox"/> Newspaper | <input type="checkbox"/> CMT Employee |
| <input type="checkbox"/> Former NPC Student | <input type="checkbox"/> Air Tech Employee |
| <input type="checkbox"/> Parent | <input type="checkbox"/> Cobalt Aero Employee |
| <input type="checkbox"/> High School | <input type="checkbox"/> Other Aviation Employee |
| <input type="checkbox"/> NPC Website | <input type="checkbox"/> Class Schedule |
| <input type="checkbox"/> Triumph Fabrications Employee | <input type="checkbox"/> Other _____ |

AFAB Program Classes:

What other classes in the AFAB Program are you **currently** enrolled in?

What other classes in the AFAB program have you **completed** with a passing grade of "C" or better?

**CERTIFICATION OF UNDERSTANDING
AFAB 120 SYLLABUS & LABORATORY SHOP RULES**

I have read the syllabus for AFAB 120 “Composite Fabrication and Repair” and the Laboratory/Shop Rules and Toolkit Inventory procedures found in Section V of the syllabus. I fully understand and I will comply with the information contained therein.

I, _____, have read and understand the above (Print Your Name)

syllabus and rules, and I agree to, and will abide by, their contents.

(Student Signature)

(Date)

(Witness Signature - classmate)

(Date)

(Instructor’s Signature)

(Date)

Course Number

Semester Term

CCBY License Statement

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DOL Attribute

This course is part of a program at National Park College that is (wholly or partially) funded by a DOL TAACCCT grant, awarded to the SouthWest Arkansas Community College Consortium in 2013.