Solidworks 1

CAD 152.l61

Number of Credits: 3

Days Class Meets: 10/26 - 12/18

Meeting Times: Optional Meeting: Mondays, 4:30 to 5:30 (beginning 11/1)

Location/Venue: Online, Big Blue Button

Instructor: Eddie Burkhead

Contact Phone:

Contact Email: BurkheaEdwardL@jccmi.edu

Online Office Hours: Thursday: 10 – 1 pm, 4 – 6 pm **In Person Office Hours:** Thursday: 1 – 4 pm

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Course Description
This course introduces students to basic modelling, assembly, and drawing creation in SolidWorks.

Prerequisite(s)
None

Course Goals
Students will complete projects using SolidWorks that will teach them the fundamentals of creating models, assemblies, and drawings. This will give them insight into how parts and assemblies are designed, engineered, and fabricated.

Course Objectives
Students will navigate the SolidWorks user interface
Students will model parts according to specification using SolidWorks tools
Students will create assemblies and drawings using SolidWorks

Textbook (chose appropriate options below, delete what does not apply)
- *Solidworks 2021 Basic Tools*, Paul Tran, ISBN 10: 1630574155

Ҳ **Digital Format:** This text is available in a digital format to rent or purchase through the JC Bookstore. Please see the links posted on your class JetNet site.

☐ **Open Educational Resources (OER):** OERs are teaching, learning, and research materials that are either (a) in the public domain or (b) licensed in a manner that provides everyone with *free permission* to:

- Retain – make, own, and control a copy of the resource

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- Redistribute – share copies of your original, revised, or remixed copy of the resource with others

☐ **No Textbook Required:** If no textbooks are *required,* students will not have to purchase books for the course.

Please review the cost of your required materials to determine the best option for you to purchase your materials.

Please note, your opt out selection is for your *entire* semester schedule. You cannot opt out/opt into individual courses. And you must opt out by the due date of your first class, which is the 3rd day after the start of your earliest course.

[Learn new textbook program at JC](#)

For account billing questions, please contact the Jackson College Cashier at jccashier@jccmi.edu

Grading Procedure
33 Projects: 90% of grade

Attempting certification exam: 10% of grade (Note: this should be signed up for with the Testing Lab by the end of week 3 of the course. This is not a final exam, and failing the exam will not be punished. It's a difficult test, but passing it is a great opportunity for your resume.)

Grading Scale

GPA	GRADE RANGE
4.0	94-100%
3.5	89-93%
3.0	84-88%
2.5	78-83%
2.0	72-77%
1.5	66-71%
1.0	60-65%
0.5	55-59%
0.0	0-54%

Failure

Any grade below 2.0 is failing.

Academic Honesty Policy

Academic Honesty is defined as ethical behavior that includes student production of their own work and not representing others' work as their own, by cheating or by helping others to do so.

Plagiarism

Plagiarism is defined as the failure to give credit for the use of material from outside sources. Plagiarism includes but is not limited to:

- Submitting other's work as your own

- Using data, illustrations, pictures, quotations, or paraphrases from other sources without adequate documentation

- Reusing significant, identical or nearly identical portions of one's own prior work without acknowledging that one is doing so or without citing this original work (self-plagiarism)

Cheating

Cheating is defined as obtaining answers/material from an outside source without authorization. Cheating includes, but is not limited to:

- Plagiarizing in any form

- Using notes/books/electronic material without authorization

- Copying

- Submitting others' work as your own or submitting your work for others

- Altering graded work

- Falsifying data

- Exhibiting other behaviors generally considered unethical

- Allowing your work to be submitted by others

Accessibility

Jackson College understands that cultivating a broadly diverse community is crucial to our educational mission and to our foundational commitment to leadership and service. Jackson College is fully committed to ensuring our courses are accessible to everyone including those with disabilities. We are currently working to increase accessibility and usability of our course materials in order to meet or exceed the requirements of Section 508 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1991 and Web Content Accessibility Guidelines (WCAG) 2.0. For more information about Jackson College's efforts to ensure accessibility please visit the [Jackson College accessibility web page](#).

If you have an accessibility need in any of our classes please e-mail the Center for Student Success at JCCSS@jccmi.edu or visit the [Center for Student Success web page](#).

At the Center for Student Success (CSS), we are committed to providing all students the opportunity to achieve academic success by providing a variety of support services free of charge to Jackson College students. This includes, but is not limited to, peer and faculty tutoring, mental health referral, temporary assistance with transportation, various workshops/seminars, and the TRIO program.

In addition, the CSS staff is committed to adapting the College's general services to meet the individual needs of otherwise qualified students with disabilities, for the purpose of providing equal access to all programs and facilities.

Course Management

This course is self paced. The instructor will provide a pacing guide for students.

Makeup Policy

All work is due at the end of the semester. Quizzes may be retaken one time. Contact your instructor for more information.

Help

Available learning services or opportunities for students seeking help with their course work. May include information about tutors, learning centers, reserved library materials, counseling services.

Academic Advising

It is important to contact a Center for Student Success professional prior to the start of the semester in order to receive accommodations in a timely manner. While we will make every effort to coordinate accommodations in a timely manner, failure to self-identify prior to the start of the semester may delay notification to instructors and timeliness of acquiring accommodations. Accommodations do not automatically carry over to the next semester. Please e-mail JCCSS@jccmi.edu or visit the [Accommodations for Students with Disabilities](#) web page

Student Responsibilities

You must communicate with your instructor in a timely manner.

Attendance- Participation Policy

Regular class participation and keeping up on the reading and assignments is strongly correlated with survival in college. It is my recommendation that you plan to do your assignments and take your exams BEFORE the last day they are due. If problems occur, there is time to fix them before the deadline.

In compliance with Federal Title IV funding requirements, as well as college initiatives, I will be monitoring student participation on a regular basis and officially reporting student activity throughout the term to assure compliance with college policy and federal regulations. It is imperative that you log in to the course and actively participate *within the first couple of days of the term* to validate your enrollment in the course. After that, not actively participating in class may result in you being withdrawn from the course. Being withdrawn from a course can have an impact on financial aid, billing, athletic eligibility, and housing status. As a college student you are responsible for how your participation impacts your academic progress; the accountability lies with you.

Caveat

Please note: The format and timing of this course may need to change due to unforeseen circumstances. In particular: school closings, instructor illness, weather, or other situations that may arise.
If you are taking an in -person class, you will be required to complete a Reintegration Video Training course in JetNet prior to being admitted to campus.
All COVID safety protocols in place are based on current guidelines and will be enforced while students are on campus.

Calendar

A partial or complete list of dates or class periods for the course. Within the calendar on specific days are: Assignments, readings, homework, exercised, performances, quizzes, topics, subject matter, skills, chapter titles, discussion topics, tests, comprehensive exams, due dates for major papers or performances. Add or remove columns as necessary to suit your course.

Also include a statement that calendar timelines and assignments are an approximation and could be changed.

WEEK #	DATE	TOPIC	HOMEWORK
1	10/26	INSTALLING SOLIDWORKS AND BASIC SOLID MODELING	MODULE 1
2	11/1	ADVANCED SOLID MODELING	MODULE 2
3	11/8	ASSEMBLIES	MODULE 3
4	11/15	DRAWINGS	MODULE 4
5	11/29	PROJECTS	MODULE 5
6	12/6	GOING FURTHER	MODULE 6
7	12/13	CERTIFICATION EXAM	MODULE 7

Important Dates:

MONDAY 09/06/2021	**LABOR DAY HOLIDAY-NO CLASSES**
WEDNESDAY 11/24-SUNDAY 11/28/2021	**THANKSGIVING HOLIDAY-NO CLASSES**
saturday 12/18/2021	End of fall Semester