Course Title: Introduction to Mathematica, MATH 400 - 01, Fall 2020
Online
Credits: 4
Prerequisite: MATH 221 and either MATH 228 or MATH 226 with a grade of C- or higher, or Admission to MS or MA program.

Course Description: This course offers an introduction to symbolic computation using Wolfram Mathematica, a powerful analytical and graphical symbolic manipulation program. The course is aimed primarily at math and science majors, and is designed for those with no prior experience with the software. The goals of the course are to: give students a working knowledge of the basics of Mathematica, to give students the ability to use symbolic computation in other courses, and to encourage and enable students to carry out mathematical research using this tool.

Instructor: Nelson Castaneda
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I will not meet in person with students in my office this semester. All office hours will be conducted online.

Office Hours: Online using Blackboard Collaborate. You will find a link to this application on the Blackboard Learn menu for our course. I will be available to meet with you on the following times
Monday and Wednesday 3:00 - 4:30 PM,
Friday 11:00 AM – 12:00 PM.
We can arrange to meet at a different time if necessary.


In addition to that the program Mathematica is very well documented and a great volume of resources can be found through the Wolfram Mathematica website.

Class Meeting Times: Tuesdays and Thursdays from 1:40 to 2:55 PM online.

Assessment: There will be a few labs, two homework assignments and a final project.
The labs are worth 30% altogether, the homework assignments are worth 20% each. The final project is worth 30%
The labs are to be developed during class times but may need to be finished home. The homework assignments will be given two weeks before the due dates that are to be announced later. The assignments will differ according to the major and background of the students with a higher level of difficulty for graduate students.
The final project is on a topic selected by the student and approved by the instructor. You should start as soon as possible the preliminary research to narrow down the problems that you wish your application to solve. In our class meetings we will be discussing ideas that could be incorporated into your projects. A higher degree of sophistication is expected from graduate students in the MA and MS programs. The final projects must be submitted before the last day of classes and must be presented to the class on Thursday, December 10 between 1 and 3 PM.

Final Exam: There is no final exam for this course. Instead the students will submit and present a final project. The final presentation is Thursday, December 10 between 1 and 3 PM.

Downloading Mathematica: Wolfram Mathematica is a sophisticated technical computing system that is used in several scientific disciplines. Our university has a license that allows you as a student to download a version of Mathematica for free. To download Mathematica you can go the link that is posted on the Math Resources menu of our department website.
University Policies:

1. You must take the final examination at the time specified in the university’s Final Exam Schedule: There is no final exam for this course. Instead, the students will submit and present a final project. The final presentation is Thursday, December 10 between 1 and 3 PM.

2. If you need course adaptations or accommodations because of a disability, if you have emergency medical information to share with me, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible. My telephone number and office hours are given above.

   I will need a copy of the accommodation letter from Student Disability Services in order to arrange your class accommodations. Contact Student Disability Services, Willard - DiLoreto Hall, Room W 201, if you are not already registered with them. Student Disability Services maintains the confidential documentation of your disability and assists you in coordinating reasonable accommodations with your faculty.

3. In the event of a weather emergency which requires curtailment or cancellation of classes, listen to WTIC (1080 AM) or call (860) 832-3333 for the “general snow message,” or check the online Cancelation/Delay Information.

4. Students may drop full semester courses up to the last day of the third week of classes in the regular semester. Courses dropped by Tuesday, September 15 will not appear on the student’s transcript. Please drop the course by September 15 if you think that this course is not appropriate for you. Feel free to schedule an appointment with me to discuss your situation.

5. Students withdrawing from a full semester course from September 16 through November 17 (through the 12th week of the semester) may do so by completing a withdrawal form. A notation of “W” will appear on the student transcript. Withdrawals during this time do not require written authorization; however, it would be prudent for the student to discuss this matter with their instructor or/and their academic advisor.

6. Forms to either drop or withdraw from a course may be found on the registrar’s website or obtained in the registrar’s office in Willard - DiLoreto Hall, Room D 202.

7. Cessation of attendance, notice to the instructor, or telephone calls to the Enrollment Center are not considered official notice of a student’s intention to drop the course. After November 17th withdrawals are allowed only under extenuating circumstances, only for students who are passing the course, and require written approval of the course instructor and the department chair.

8. Central Connecticut State University (CCSU) will not tolerate sexual misconduct against students, staff, faculty, or visitors in any form, including but not limited to: sexual assault, sexual exploitation, sexual harassment or stalking, as defined in CCSU policies. For additional information, please consult the website of the Office of Diversity and Equity.

9. You are responsible for understanding and abiding by the University’s policy on academic integrity. Information on the policy may be found at Academic Integrity Policy. This policy is rigorously enforced by the Department of Mathematical Sciences.

10. All students are expected to demonstrate integrity in the completion of their course work. Academic integrity means doing one’s own work and giving proper credit to the work and ideas of others. It is the responsibility of each student to become familiar with what constitutes academic dishonesty and plagiarism and to avoid all forms of cheating and plagiarism. Students who engage in plagiarism and other forms of academic misconduct will face academic and possibly disciplinary consequences. Academic sanctions can range from a reduced grade for the assignment to a failing grade for the course. From a disciplinary standpoint, an Academic Misconduct Report may be filed and a Faculty Hearing Board may impose sanctions such as probation, suspension or expulsion.

11. For further information on academic misconduct and its consequences, please consult the Student Code of Conduct and the Academic Misconduct Policy.