

**Texas A&M University, Central Texas, Fall 2017**  
**Mathematics 5198-130: Thesis (3 credit hours)**

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**Good communication is the key to success.\*\*** Please *don't hesitate* to contact me. I have small classes this semester, so I have time to talk to you! I'm in the office Mondays 3-7, Wednesdays 3-7 and Thursday 11-1 online. But why not use modern communication?

- Call my cell phone any time between 9 a.m.- 9 p.m. Leave a message if I don't answer.
- Email me any time.
- If you text me, text both my cell phone and email.
- We can easily set up a meeting by Skype or Google talk if you call or email.

**1.0 Course Overview:** Utilize a 3D printer for prosthetics. Software used: Fusion 360.

**2.0 Competency Goal Statements:**

Upon successfully completing MATH 5198-130, students should be able to do the following:

- a. design a prosthetic in Fusion 360;
- b. Utilize a 3D printer to print parts for the prosthetic
- c. Assemble parts;
- d. Find a recipient for the prosthetic,
- e. Summarize results using Latex/Maple.

**3.0 Required Materials\*\***

**Textbook:**

- Visualizing mathematics through 3D printing. Henry Segerman. The text main web page is:

**4.0 Course Requirements\*\***

- Assist sessions with in-service teachers from KISD 10%
- 2 Projects 50%
- Weekly presentations 40%

**5.0 Grading Policies\*\***

*This is a hands-on course. Students are expected to meet with the instructor weekly.*

*If the student wishes to appeal a grade, he/she must do so within 1 week of receiving the graded paper. Students should save all their work to ensure that no clerical errors are made in grade reporting. Periodically during the semester, I will release a complete record of your grades so far in the class. If I have made a recording error, you may bring the paper to me and I will record it correctly.*

**6.0 Drop Policy**

If you discover that you need to drop this class, you must go to the Records Office and ask for the necessary paperwork. Professors cannot drop students; this is always the responsibility of the student. The Records Office will give a deadline by which the form must be returned, completed and signed. Once you return the signed form to the records office and wait 24 hours, you must go into Warrior Web and confirm that you are no longer enrolled. If you are still enrolled, FOLLOW-UP with the records office immediately. You are to attend class until the procedure is complete to avoid penalty for absence. Should you miss the deadline or fail to follow the procedure, you will receive an F in the course.

*The last date to drop with no record on the transcript may be found on the academic calendar, or call the registrar's office.*

**7.0 Academic Honesty**

Texas A&M University - Central Texas expects all students to maintain high standards of personal and scholarly conduct. Students found responsible of academic dishonesty are subject to disciplinary action. Academic dishonesty includes, but is not limited to, cheating on an examination or other academic work, plagiarism, collusion, and the abuse of resource materials. The faculty member is responsible for initiating action for each case of academic dishonesty and report the incident to the Associate Director of Student Conduct. More information can be found at <http://www.tamuct.edu/departments/studentconduct/facultyresources.php>.

**8.0 Disability Services**

At Texas A&M University-Central Texas, we value an inclusive learning environment where every student has an equal chance to succeed and has the right to an education that is barrier-free. The Office of Disability Support and Access is responsible for ensuring that students with a disability enjoy equal access to the University's programs, services and activities. Some aspects of this course or the way the course is taught may present barriers to learning due to a disability. If you feel this is the case, please contact Disability Support and

Access at (254) 501-5831 in Warrior Hall, Suite 212. For more information, please visit their website at <http://www.tamuct.edu/disabilitysupport>. Any information you provide is private and confidential and will be treated as such.

### 9.0 Tutoring Services

Need help with a paper? Statistics got you baffled? The University Tutors are ready to help you through those tough problems and are here to give you the skills you need to succeed in the classroom. All tutoring for Academic Support takes place in Warrior Hall, room WH 111, in our brand new Tutoring Center. Schedule an appointment or simply walk-in during open hours and get the help you need! To schedule a time to meet with a tutor contact: Christine Garza at (254) 501-5836 or email: [c.garza@tamuct.edu](mailto:c.garza@tamuct.edu)

### 11.0 Syllabus Updates\*\*

During the course of the semester, the instructor may find it necessary to modify certain portions of this syllabus. If the syllabus is updated, then students will be informed via Google group and the updated syllabus will be placed on Blackboard.

### 12.0 Student Concerns\*\*

In general, student concerns about this course should be addressed to the instructor. If the student wants to remain confidential, concerns may be raised with the Mathematics Department chair, who will guarantee confidentiality.

## Appendix: Expectations and responsibilities

### Instructor Responsibilities:

- Post necessary study materials online
- Respond effectively to all email requests within 48 hours (Please use [thron@tamuct.edu](mailto:thron@tamuct.edu) for individual issues or the google group address for questions about content.)
- Solicit feedback and respond effectively to student concerns about class organization, presentation, and content.
- Return all papers no more than 1 week after they are handed in
- Make all grades available to students after each test and at the end of the semester.

### Student Responsibilities:

- **Complete each assignment by the specified due date.**
- Obtain assignments and other information for missed classes.
- **Sign up for the Google Group for this class.**
- Make use of all available study-aid options to resolve any questions that they might have regarding course material. These include:
  - Coming to office hours
  - Contacting the instructor outside of office hours via phone, chat, or email
  - Tutoring on campus
  - Discussion with other students. I encourage you to work together on homework.
- Give as much of an effort as it takes to pass this course. You should expect to spend **nine hours per week** on this class (including class, reading, and homework). If your background is shaky, you may have to spend even more time.
- **Save all graded work.** If there is a dispute about grades, no recorded grade will be changed unless the paper in question is produced.
- Bring any disputes about grades to the instructor's attention no more than 1 week after the paper in question is returned.
- If a grade is not recorded correctly on the instructor's grade book, the student must call this to the instructor's attention no more than 1 week after the records are given to the student (i.e. after the midterm or final).
- Students must maintain academic honesty in their work for this class, defined as follows:
  - Reading and Homework: Students may work together on reading and homework. In fact, I strongly encourage you to work together. I never would have completed graduate school if I'd done all the homework by myself. However, working together is not the same as copying. You may discuss and work out ideas together, but you must write up your solution for yourself.
  - Online or take-home tests – these are expected to be your own work. Discussion or collaboration with anyone except the instructor is not allowed. You may not look at anyone else's work on the test, and you may not discuss your work with anyone else except the instructor.  
For take-home tests, in general you are allowed to consult references (class notes, books, Internet) unless the instructions explicitly forbid this. If you do consult any references, you are required to cite your source.
  - In-class tests follow the usual conventions. In general, cheat sheets are allowed, as will be made clear by the instructor before the test.
- Last, but not least:** by taking this class, the student signifies his/her agreement to abide by all the conditions of this syllabus.