

FYOS 1001: Digital Design and Manufacture of Clothing Fall 2025

1. COURSE INFORMATION

Dr. Jason Cantarella

Office: Boyd 405

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5:30-6:45pm Thursday, Boyd 628.

<http://www.jasoncantarella.com/wordpress/courses/fyos-1001/>

Office hours: Wednesday 3:30-7pm

Please feel free to write me emails at any one of jason.cantarella@uga.edu, jason.cantarella@gmail.com or jhc7447@uga.edu. Replies will come from jason.cantarella@gmail.com. It often takes me a couple of days (or longer) to respond to email, and if I'm going to see you in class first, I'll try to follow up with you in person. This is a laboratory-based class, in which you'll spend most of the class time building and experimenting. You'll also spend some out-of-class time working on a project of your choice.

2. COURSE SCHEDULE

Meeting plan	
Introduction: Three ways to combine tech and fashion	8/14
Activity: Class introductions and discussion.	
Meshes and flat surfaces: What is flatness?	8/21
Activity: Polydron "cloth"	
Activity: Making a flat sphere.	
Meshes and general surfaces: What is curvature?	8/28
Activity: Assemble a bodice from a paper pattern	
Activity: Join curves together to cover a model.	
Rigidity and dynamics, origami: What is flexibility?	9/4
Activity: Fold an arch.	
Activity: Fold a hyperbolic paraboloid.	
Activity: Design a hinged bracelet.	
Introduction to 3d printing. What is possible?	9/11
Activity: 3d printing training at MLC 373	
Activity: Print your hinged bracelet	
Introduction to scanning.	9/4
Activity: Scan a human with Einstar.	
Activity: Scan a human with your phone.	
From scan to triangle mesh	9/25
Activity: Low polygon sphere	
Activity: Low polygon hat (I)	
Low polygon hats	10/2 - 10/9
Activity: Low polygon hat assembly	
Baseball hat theory and seam patterns	10/16
Activity: Measuring heads and scaling patterns	
Activity: Cutting fabric and paper.	
Cloth hat sewing and assembly	10/23 - 10/30 - 11/6
Activity: Cloth hat assembly.	
Hat brims	11/13
Activity: Construction of hat brims.	
Show and tell for final projects	11/20

3. PREREQUISITES

None.

4. COURSE GOALS

Gain a practical understanding of the geometric of fabric and clothing.

5. DISCLAIMER

The syllabus is a general course plan, but deviations may become necessary over the course of the semester.

6. PRINCIPAL COURSE ASSIGNMENTS

In-class papercraft constructions and activities. One out-of-class assignment.

7. GRADING AND POLICIES, PEDAGOGY

Grading is based on participation and completion of assignments.

8. ATTENDANCE POLICY

Please come to class.

9. ACADEMIC HONESTY

As a University of Georgia student, you have agreed to abide by the University's academic honesty policy, "A Culture of Honesty," and the Student Honor Code. All academic work must meet the standards described in A Culture of Honesty found at: www.uga.edu/honesty.

10. GENERAL DISCLAIMER

The course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary.

11. ACCOMMODATIONS FOR DISABILITIES

If you plan to request accommodations for a disability, please register with the Disability Resource Center. They can be reached by visiting Clark Howell Hall, calling 706-542-8719 (voice) or 706-542-8778 (TTY), or by visiting <http://drc.uga.edu>.

12. FERPA NOTICE

The Federal Family Educational Rights and Privacy Act (FERPA) grants students certain information privacy rights. See the registrar's explanation at reg.uga.edu/general-information/ferpa/. FERPA allows disclosure of directory information (name, address, telephone, email, major, activities, degrees, awards, prior schools), unless requested in a written letter to the registrar.

13. MENTAL HEALTH AND WELLNESS RESOURCES

UGA Well-being Resources promote student success by cultivating a culture that supports a more active, healthy, and engaged student community. Anyone needing assistance is encouraged to contact Student Care & Outreach (SCO) in the Division of Student Affairs at 706-542-8479 or visit sco.uga.edu. Student Care & Outreach helps students navigate difficult circumstances by connecting them with the most appropriate resources or services. They also administer the Embark@UGA program which supports students experiencing, or who have experienced, homelessness, foster care, or housing insecurity.

UGA provides both clinical and non-clinical options to support student well-being and mental health, any time, any place. Whether on campus, or studying from home or abroad, UGA well-being Resources are here to help.

- Well-being Resources: well-being.uga.edu
- Student Care and Outreach: sco.uga.edu
- University Health Center: healthcenter.uga.edu

- Counseling and Psychiatric Services: caps.uga.edu or CAPS 24/7 crisis support at 706- 542-2273
- Health Promotion/ Fontaine Center: healthpromotion.uga.edu
- Disability Resource Center and Testing Services: drc.uga.edu Additional information, including free digital well-being resources, can be accessed through the UGA app or by visiting <https://well-being.uga.edu>.