

CIS 4930: Web Application Development

Fall 2018

Section: 3D53 **Class Location:** FLI 0105 **Class Periods:** MWF, Period 2 (8:30 AM – 9:20 AM)
Section: 3D54 **Class Location:** FLG 0280 **Class Periods:** MWF, Period 4 (10:40 AM - 11:30 AM)

Instructor

Dr. Philippa R. Brown

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(352) 570-0990

CSE 504, Office Hours: Wednesday, 12:00p.m – 2:00p.m. and by appointment

Teaching Assistants

Sajid Rahman, rahmanm@ufl.edu, Monday 2-3:30pm, Thursday 11-12:30pm

For current list, go to: <https://ufl.instructure.com/courses/356323/pages/ta-information>

Course Description

- CIS 4930 Special Topics – Web Application Development, 3 Credits
- Experience the adventure of a full-stack web application developer. This course introduces client-side, middleware, and server-side technologies needed to design, create, evaluate, and host interactive web applications. Students will gain hands-on experience with core markup, style, and scripting languages as well as exposure to current web frameworks. Data will be processed and stored on the server-side using Java and database technologies. We will also cover and implement software development practices, common security concerns and prevention techniques, application programming interfaces, and network protocols.
- All course announcements will be posted to Canvas and Piazza.
 - Canvas: <https://elearning.ufl.edu> or <https://ufl.instructure.com/courses/356323>
 - Piazza Class Page: <https://piazza.com/ufl/fall2018/cis4930>

Course Pre-Requisites

- COP 3502 Programming Fundamentals 1
- COP 3503 Programming Fundamentals 2

Course Topics

- This course will cover the following topics (not necessarily in this order):
 - Architecture of Web Applications
 - Web Servers
 - Web Development Frameworks
 - REST API
 - Persistence and Data Storage
 - Client-side Technologies - HTML, CSS, JavaScript, AJAX, JSON
 - Web Application Security and Testing

Materials and Supply Fees

- For current details, see: <https://registrar.ufl.edu/soc/201808/all/computer.htm>

Required Resources

- Github account: <https://github.com/>
- Piazza account: <https://piazza.com/>

Recommended Resources

- *Web Application Architecture: Principles, Protocols and Practices* 2nd Edition by Leon Shklar and Rich Rosen - ISBN: 978-0470518601
- Various online tutorials (w3schools.com, guides.github.com, etc.)

Attendance Policy, Class Expectations, and Make-Up Policy

- Students are expected to attend every class and discussion session since the content will be drawn from various sources. Attendance will be checked periodically through in-class participation opportunities and assignments.
- A laptop or tablet is required in class daily. They will be needed during for some assignments. Notifications and all other sounds must be muted.
- For individual projects, code must be solely written by you. Do not share code with or view code from classmates. For group projects, collaboration is expected and code that is submitted must also be original.
- No late homework or class assignments will be accepted.
- Projects submitted after the given deadline will receive a 15% penalty per day and will not be accepted more than 48 hours late.
- Excused absences must be consistent with university policies in the undergraduate catalog (<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>) and require appropriate documentation.
- Getting Help
 - For project or homework assistance, please use Piazza to reach out to classmates and TAs.
 - For technical problems with any of the software we are using please contact the individual software provider's technical support.

Tentative Evaluation of Grades

Assignment	Percentage of Final Grade
In-class assignments and participation	15%
Out-of-class assignments	20%
Individual projects	20%
Group projects	45%

Grading Policy

Final grades will be assigned based on the following scale

A 100 - 93	B+ 85 - 88	C+ 76 - 79	D 60 - 69
A- 92 - 89	B 80 - 84	C 70 - 75	F < 60

More information on UF grading policy may be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

UF General Policies

Students Requiring Accommodations

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://www.dso.ufl.edu/drc>) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Course Evaluation

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu/evals>. Evaluations are typically open during the last two or three weeks

of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

University Honesty Policy

UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Software Use

All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

Student Privacy

There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see: <http://registrar.ufl.edu/catalog0910/policies/regulationferpa.html>

Campus Resources:

Health and Wellness

U Matter, We Care:

Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

Counseling and Wellness Center: <http://www.counseling.ufl.edu/cwc>, and 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Sexual Assault Recovery Services (SARS)

Student Health Care Center, 392-1161.

University Police Department at 392-1111 (or 9-1-1 for emergencies), or <http://www.police.ufl.edu/>.

E-learning technical support, 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu.
<https://lss.at.ufl.edu/help.shtml>.

Career Resource Center, Reitz Union, 392-1601. Career assistance and counseling. <https://www.crc.ufl.edu/>.

Library Support, <http://cms.uflib.ufl.edu/ask>. Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring.
<https://teachingcenter.ufl.edu/>.

Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers.
<https://writing.ufl.edu/writing-studio/>.

Student Complaints Campus: https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf.

On-Line Students Complaints: <http://www.distance.ufl.edu/student-complaint-process>.