

GEORGIA COLLEGE & STATE UNIVERSITY COURSE SYLLABUS

Web Application Integration

Semester:	Spring	Year:	2023
Course Title:	Web Application Integration	Course #:	CBIS 4214
Instructor:	Dr. Bryan Marshall	Office:	Online
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Phone:	478-445-2137		
Class Time:	Online		
Classroom:	Online		

Catalog Description

Prerequisite: CBIS 3210, CBIS 3214 and CBIS 4210, all with a grade of C or better. This course is a capstone course that helps the student integrate all concepts taught in the CBIS curriculum. The students will learn about and employ, web-based scripting languages to manage the creation and deployment of a web-based application. The content of the course is project-based and stresses knowledge gained in the prerequisite classes.

Course Outcomes

Students should be able to:

1. apply programming to everyday life to solve problems.
2. see the value in learning programming and how it can help business.
3. approach a problem systematically, breaking down the required parts and building a working application.
4. become more confident in their programming skills and what programs can do.
5. understand basic key terms like variables, constants, functions, and loops.
6. build and connect to a database
7. design and deploy a Python GUI
8. take a basic Python application to a web framework

Grading (1000 pts)

A	900 – 1000 pts
B	800 – 899 pts
C	700 – 799 pts
D	600 – 699 pts
F	Less than 599

Textbooks

Flask Web Development by Miguel Grinberg (2nd Edition) 978-1-491-99173-2 (*optional but recommended*)

Desire2Learn

The class assignments/grades are managed through D2L.

ALL OF YOUR ASSIGNMENTS WILL BE UPLOADED AND GRADED ON D2L!!!

Common Syllabus Requirements

All common statements for this syllabus are found at

<http://www.gcsu.edu/business/docs/GCRequiredSyllabusStatements.docx>

Module	Dates	Readings / Content	Assign
1	1/9 – 1/22	Intro to MVC, Flask Setup, PyCharm, Git Templates	A1: Flask Setup (1/22) 75 pts
2	1/23 – 2/5	MVC, Bootstrap, CSS, Jina Template	A2: Site Structure (2/5) 75 pts
3	2/6 – 2/19	Deployment, Navigation, MySQL (AWS), MySQL Workbench	A3: Heroku (2/19) 100 pts
4	2/20 – 3/5	MySQL 3 Tables	A4: Login / Database (3/5) 100 pts A5: Asset Class (3/5) 100 pts
5	3/6 – 3/26	CRUD	A6: Ticker Class (3/26) 100 pts A7: Transactions (3/26) 100 pts
6	3/27 – 4/9	API	A8: Ticker API (4/9) 100 pts
7	4/10 – 5/3		Final Project (5/3) 250 pts