Bossier Parish Community College
Master Syllabus

Course Prefix and Number: CIT 259   **Credit Hours:** 3-3-0

Course Title: Modern Web Application Development

Course Prerequisites: CIT 102 and CIT 149 and CIT 130

Textbook(s): *Flask Web Development (2nd Edition):* Miguel Grinberg. ISBN: 9781491991732

Course Description: Students will learn the fundamentals of web development using a modern back-end framework by building interactive web sites. Through the course, students will generate web pages based on database information, collect information provided via web forms and manage site access via user authentication and authorization.

Learning Outcomes:
At the end of this course, the student will:
- A. generate web pages using a modern back-end web framework
- B. define routes and deliver different content depending on URL structure
- C. build web forms and save user-submitted information
- D. dynamically build pages based on database information
- E. properly hash and store secret information

To achieve the learning outcomes, the student will or will be able to:
(The letter designations at the end of each statement refer to the learning outcome(s).)
1. develop web sites using a back-end framework with a modern server-side language (such as Python, PHP, Javascript or Ruby); (A)
2. organize code within a framework project structure; (A)
3. generate HTML content via a templating engine; (A,B)
4. read and process URL information within a web request; (B)
5. process information in POST and GET requests to store user information; (C)
6. read information from an SQL or NoSQL database to populate a web page; (D)
7. write information to an SQL or NoSQL database provided via web response; and (D)
8. hash and Salt user passwords for database storage. (E)

Course Requirements:
1. A student must successfully complete the course with an average of 70% or above on the combined learning outcomes.
2. Each student is expected to attend classes regularly; excessive unexcused absences constitute grounds for suspension (refer to the student handbook for attendance policies).

Course Grading Scale:
       90 – 100 = A
       80 – 89   = B
       70 – 79   = C
       60 – 69   = D
       0 – 59   = F

Attendance Policy: The college attendance policy is available at
http://www.bpcc.edu/catalog/current/academicpolicies.html

Course Fees: This course is accompanied with an additional fee for supplemental materials.

Nondiscrimination Statement: Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

COORDINATOR FOR SECTION 504 AND ADA
Angie Cao, Student and Disability Services Specialist
Disability Services, F-254
6220 East Texas Street
Bossier City, LA 71111
Phone: 318-678-6511
Email: acao@bpcc.edu
Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.

Equity/Compliance Coordinator
Teri Bashara, Director of Human Resources
Human Resources Office, A-105
6220 East Texas Street
Bossier City, LA 71111
Phone: 318-678-6056
Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.