Rowan College at Burlington County
Spring 2024
STEM Department

Course Title: **CSE 215 - Programming Languages**
Credits: 3
Class Meets: **Tuesdays & Thursdays (2pm to 3:50pm)**
Prerequisite: CSE-111
Instructor Name: **Professor Robert Foti**
Instructor Email: rfoti@rcbc.edu
Instructor Phone/Text: (732) 261-6730

CSE 215 - Programming Languages - SECTION 1: Course Information

Course Description

This course introduces the conceptual study of programming language syntax, semantics, and implementation. It includes language definition structure, data types and structures, control structures, data flow, declarative forms, functional forms, concurrency, objects, scoping and binding, inheritance, and interpretation. Python will be used as the primary language to illustrate the presented concepts.

Required Text and other Materials

TEXT: Concepts of Programming Languages, 11th edition, Sebesta

Course Learning Outcomes

INTRODUCTION TO A CONCEPTUAL STUDY OF PROGRAMMING LANGUAGE:

- SYNTAX
- SEMANTICS
- INTERPRETATION

ADDITIONAL TOPICS WE WILL COVER:

- LANGUAGE DEFINITION STRUCTURE
- DATA TYPES AND STRUCTURES
- CONTROL STRUCTURES
- DATA FLOW
- DECLARATIVE FORMS
- FUNCTIONAL FORMS
- CONCURRENCY
- OBJECTS
- SCOPE AND BINDING
- INHERITANCE

CSE 215 - Programming Languages - SECTION 2: Course Structure

Course and Classroom Policies

- Attendance: Attendance and class participation is mandatory (more than 2 unexcused absences can result in course failure)
- A sign in sheet will be available at beginning of class (Your signature is required for attendance credit)
- Mobile phone or computer usage is not permitted during class (use mobile phones outside the classroom)
- All assignments must be turned in on time for credit
- All assignments will be posted on Blackboard & will be submitted via email (assignment answers in a txt file)
- It is your responsibility to obtain and complete all assignments and submit them on time.
- Assignments will be on previously lectured material and will be graded before the next class, so that we can review them.
- Assignments will be due before class begins, unless otherwise specified.
- Late assignments will be accepted with a 10 point penalty per week (off the total score)
- Assignments, Quizzes & Exams not taken will receive a zero grade.
- Make-up Quizzes & Exams must be scheduled and taken the week you return to class.
- If there is any learning, language or other disability or circumstance that may affect your performance in this course, please bring it to my attention as early as possible.
- Email / In-Person / Zoom Meetings available for any issues that arise.

Criteria for Grading Based On:

Lecture Assignments / Quizzes	40%
Mid-Term Exam	25%
Final Exam	25%
Class Participation	10%
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- Attendance and punctuality is expected. (please respect your fellow students by arriving to class on-time)
- Class participation is expected and will contribute to your grade
- Quizzes and Exams will be given in class (No makeup tests will be given without advanced notice & scheduling)
- Optional extra credit project(s) may be offered.
- Scores will be weighted as shown above to result in a percentage. (official letter grade using standard scheme)
- A curve may be applied after the final percentage is calculated. (curve cannot lower your letter grade)

Important Dates -15 Week Term (2024 Spring)

First Day of Class	Tuesday, January 23, 2024
Spring Break (No Class)	Tuesday, 3/12/2024 & Thursday, 3/14/2024
Last Day to Withdraw	Wednesday, 3/27/2024
Last Day of Class	Thursday, 5/9/2024

CSE 215 - Programming Languages – SECTION 3: Course Schedule (Spring 2024)

WEEK # / DATES	TEXTBOOK CHAPTER(S)	LECTURE TOPIC(S)
Week 1 (1/23 – 1/25)	Ch.1	Introduction & Syllabus / Preliminaries
Week 2 (1/30 – 2/1)	Ch.2	Evolution of the Major Programming Languages
Week 3 (2/6 – 2/8)	Ch.3	Describing Syntax & Semantics
Week 4 (2/13 – 2/15)	Ch. 4 / Python	Lexical & Syntax Analysis / Python
Week 5 (2/20 – 2/22)	Ch.5	Names, Bindings and Scope
Week 6 (2/27 – 2/29)	Ch.6	Data Types
Week 7 (3/5 – 3/7)	Ch.7	Expressions / Assignment Statements
Week of (3/12 - 3/14)	-----	NO CLASS – SPRING BREAK
Week 8 (3/19 – 3/21)	MID-TERM WEEK	MID-TERM REVIEW / MID-TERM EXAM (Ch. 1-7)
Week 9 (3/26 – 3/28)	Ch.8	Statement Level Control / Subprograms
Week 10 (4/2 – 4/4)	Ch.9 / Ch.10	Subprograms
Week 11 (4/9 – 4/11)	Ch.15	Functional Programs
Week 12 (4/16 – 4/18)	Ch.11 / Ch.13	Abstract Data Types and Encapsulation / Concurrency
Week 13 (4/23 – 4/25)	Ch.12	Support for Object Oriented Programming
Week 14 (4/30 – 5/2)	Ch.16	Logical Programming Languages
Week 15 (5/7 – 5/9)	FINAL WEEK	FINAL EXAM REVIEW (5/7) / FINAL EXAM (5/9) – All Chapters

General Class Structure

- Attendance Sign-in
- Review Previous Assignment
- Brief Review of Previous Unit (or Test)
- Q&A on Previous Unit
- Current Unit Lecture
- Discussion
- New Assignment
- Q&A on New Assignment
- Dismissal

CSE 215 - Programming Languages – SECTION 4: College Resources

College Policies

In order for students to know their rights and responsibilities, all students are expected to review and adhere to all regulations and policies as listed in the College Catalog and Handbook. These documents can be accessed at http://www.rcbc.edu/publications. Important policies and regulations include, but are not limited, to the following:

- College Attendance Policy
- Grading Standards o Withdraw (W) and Incomplete Grades (I & X)
- Student Code of Conduct o Academic Dishonesty/Plagiarism and Civility
- Use of Communication and Information Technology

Office of Student Support and Disability Services

RCBC welcomes students with disabilities into the college's educational programs. Access to accommodations and support services for students with learning and other disabilities is facilitated by staff in the Office of Student Support (OSS). To receive accommodations, a student must contact the OSS, self-identify as having a disability, provide appropriate documentation, and participate in an intake appointment. If the documentation supports the request for reasonable accommodations, the OSS will provide the student with an Accommodation Plan to give to instructors. For additional information, please contact the Office of Student Support at 609-894-9311, ext. 1208, disabilityservices@rcbc.edu, or http://www.rcbc.edu/studentsupport.

Educational Technology Statement

Rowan College at Burlington County (RCBC) advocates the use of technology to enhance instruction. Students should assume that classroom and online technology will be used throughout their coursework at RCBC, as it will most certainly be used in their future education and careers. The College provides on campus facilities for the convenience of the RCBC community. Various college departments, including the Office of Information Technology and the Office of Distance Education, provide technology training and assistance to faculty and students.

Student Success Services

RCBC offers a variety of free services for its students including those listed below. Descriptions of these services, as well as many others, can be found in the College Catalog and Handbook and on the RCBC website at http://www.rcbc.edu/students.

- Academic Advisement (http://www.rcbc.edu/advising)
- Career Services (http://www.rcbc.edu/careers)
- Educational Opportunity Fund (EOF) (http://www.rcbc.edu/eof)
- Financial Aid (http://www.rcbc.edu/financialaid)
- International Students Office (http://www.rcbc.edu/international)
- Library/Integrated Learning Resource Center (ILRC) (http://www.rcbc.edu/library)
- Office of Veteran Services (http://www.rcbc.edu/vets)
- Student Support Counseling (http://www.rcbc.edu/cpit)
- Tutoring Center (http://www.rcbc.edu/tutoring)
- Test Center (http://www.rcbc.edu/testcenter)
- Transfer Services (http://www.rcbc.edu/transfer)

This syllabus is subject to change at the instructor's discretion.