CSCI - Computer Science/Programming

CSCI 107. Joy and Beauty of Computing. 3 Credits. (3 Lec) F,S
Examines the computing field and how it impacts the human condition. Introduces exciting ideas and influential people. Provides a gentle introduction to computational thinking using the Python programming language.

Term CRN Section Session/Dates Days Location Time
2019 Summer 11320 001 May-start: 4x4 MTWR NAIH153 11:00am - 1:35pm Session

CSCI 112. Programming with C I. 3 Credits. (2 Lec, 1 Lab) F,S
PREREQUISITE: CSCI 111 or CSCI 127 or EELE 101. C Programming knowledge. Introduces imperative programming and the C standard library. Course covers pointers, memory management and structures.

Term CRN Section Session/Dates Days Location Time
2019 Summer 10570 001 May-start: 4x4 MTWR ROBERT209 8:00am - 10:35am Session

CSCI 117. Joy and Beauty of Data. 4 Credits. (3 Lec, 1 Lab) F,S
COREQUISITE: M 151Q Provides a gentle introduction to the exciting world of big data and data science. Students expand their ability to solve problems with Python by learning to deploy lists, files, dictionaries and object-oriented programming. Data science libraries are introduced that enable data to be manipulated and displayed. To succeed in this course, either basic computer literacy or CSCI 107 is recommended.

Term CRN Section Session/Dates Days Location Time
2019 Summer 11119 001 June-start: 4x4 MTWR BARNAR126 8:00am - 10:35am Session
2019 Summer 11119 001 June-start: 4x4 MTWR BARNAR254 2:00pm - 5:00pm Session

CSCI 127. Basic Data Structures and Algorithms. 4 Credits. (3 Lec, 1 Lab) F,S
PREREQUISITE: CSCI 111 or CSCI 127 and M 151Q. An examination of advanced Java and basic data structures and their application in problem solving. Data structures include stacks, queues and lists. An introduction to algorithms employing the data structures to solve various problems including searching and sorting, and recursion. Understanding and using Java class libraries. The laboratory uses Java. Introduces Big-O Notation.

Term CRN Section Session/Dates Days Location Time
2019 Summer 10716 001 July-start: 4x4 MTWR ROBERT208 8:00am - 10:35am Session
2019 Summer 10716 001 July-start: 4x4 MTWR BARNAR254 2:00pm - 5:00pm Session

CSCI 215CS. Social & Ethical Issues in Computer Science. 3 Credits. (2 Lec, 1 Rec) F,S
PREREQUISITE: W core and US core. Social and ethical issues as they relate to computing, including privacy, risks, computer abuse, commerce, professionalism, free speech, intellectual property, social justice, and current issues. History of computing.

Term CRN Section Session/Dates Days Location Time
2019 Summer 10717 001 July-start: 4x4 MTWR ROBERT307 11:00am - 1:35pm Session

CSCI 232. Data Structures and Algorithms. 4 Credits. (3 Lec, 1 Lab) F,S
PREREQUISITE: CSCI 132. Advanced data structures and programming techniques and their application. Topics include: trees, balanced trees, graphs, dictionaries, hash tables, heaps. Examines the efficiency and correctness of algorithms. The laboratory uses Java. CSCI 246 is recommended as a prerequisite.

Term CRN Section Session/Dates Days Location Time
2019 Summer 10458 001 May-start: 4x4 MTWR ROBERT301 8:00am - 10:35am Session
2019 Summer 10458 001 May-start: 4x4 MTWR BARNAR254 2:00pm - 5:00pm Session

CSCI 246. Discrete Structures. 3 Credits. (3 Lec) F,S
PREREQUISITE: M 171Q. COREQUISITE: CSCI 132. This course covers logic, discrete probability, recurrence relations, Boolean algebra, sets, relations, counting, functions, maps, Big-O notation, proof techniques including induction, and proof by contradiction.

Term CRN Section Session/Dates Days Location Time
2019 Summer 10971 001 May-start: 4x4 MTWR ROBERT218 11:00am - 1:35pm Session

CSCI 338. Computer Science Theory. 3 Credits. (3 Lec) S
PREREQUISITE: CSCI 246 and M 171Q. Formal languages, theory, automata, Turing Machines, computability, the Church-Turing thesis, computational complexity, and NP-completeness.

Term CRN Section Session/Dates Days Location Time
2019 Summer 11120 001 July-start: 4x4 MTWR ROBERT208 2:00pm - 4:35pm Session

CSCI 581. Computational Thinking Tchrs. 2 Credits. (1 Lec. 1 Lab) Su
PREREQUISITES: A minimum of 2 years high school teaching experience. The course examines the computing field and how it impacts the human condition. Exciting ideas and influential people are introduced. A gentle introduction to computational thinking using the Python programming language is provided. The course also introduces participants to robotic platforms.

Term CRN Section Session/Dates Days Location Time
2019 Summer 11250 001 Intersession - - - Session

CSCI 582. Joy Beauty Data for Teachers. 2 Credits. (1 Lec. 1 Lab) Su
PREREQUISITES: A minimum of 2 years teaching experience at the 7-12 grade level, and CSCI 581, Computer Science in the Classroom: Computational Thinking for Teachers or prior computer science experience, is a prerequisite. Teachers who enroll in this course will extend their knowledge of the Python programming language and be gently introduced to the world of data science. The course builds upon the pre-requisite course that is the 2-credit, MSSE course entitled Computer Science in the Classroom: An Introduction to Computational Thinking. Teachers who complete this course will be better prepared to teach material covered in CSCI 127, The Joy and Beauty of Computing.

 Term CRN Section Session/Dates Days Location Time
2019 Summer 11251 001 Non-standard MTWR ROBERT121 8:00am - 5:00pm Session
term dates 22-JUL-19 to 26-JUL-19

CSCI 599. Graduate Consultation. 1-3 Credits. (1-3 Ind; 3 cr max) On Demand
PREREQUISITE: Master's standing, consent of instructor and approval of director of the School of Computing. This course may be used only by students who have completed all of their course work, and thesis, if on a thesis plan but who need additional faculty or staff time or help.

Term CRN Section Session/Dates Days Location Time
2019 Summer 10965 001 Full Semester - - - Session
Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.