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  
CERN  
Section  
Session/Dates  
Days  
Location  
Time  
2018 Summer  
11583  
001  
May Start  
MTWR  
ROBH218  
8:00am - 10:35am  
Session

CSCI 112. Programming with C 1, 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  
CERN  
Section  
Session/Dates  
Days  
Location  
Time  
2018 Summer  
10757  
001  
May Start  
MTWR  
ROBH209  
8:00am - 10:35am  
Session

CSCI 127. 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  
CERN  
Section  
Session/Dates  
Days  
Location  
Time  
2018 Summer  
11584  
001  
June-start: 4x4  
MTWR  
BARNAH126  
8:00am - 10:35am  
Session
2018 Summer  
11584  
001  
June-start: 4x4  
MTWR  
BARNAH254  
2:00pm - 5:00pm  
Session

CSCI 132. 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  
CERN  
Section  
Session/Dates  
Days  
Location  
Time  
2018 Summer  
10929  
001  
July-start: 4x4  
MTWR  
ROBH208  
8:00am - 10:35am  
Session
2018 Summer  
10929  
001  
July-start: 4x4  
MTWR  
BARNAH254  
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  
CERN  
Section  
Session/Dates  
Days  
Location  
Time  
2018 Summer  
10930  
001  
July-start: 4x4  
MTWR  
ROBH307  
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  
CERN  
Section  
Session/Dates  
Days  
Location  
Time  
2018 Summer  
10592  
001  
May Start  
MTWR  
ROBH301  
8:00am - 10:35am  
Session
2018 Summer  
10592  
001  
May Start  
MTWR  
BARNAH254  
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  
CERN  
Section  
Session/Dates  
Days  
Location  
Time  
2018 Summer  
11356  
001  
May Start  
MTWR  
ROBH218  
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  
CERN  
Section  
Session/Dates  
Days  
Location  
Time  
2018 Summer  
11585  
001  
July-start: 4x4  
MTWR  
ROBH208  
2:00pm - 4:35pm  
Session

CSCI 491. Special Topics. 1-4 Credits. (1-4 Lec; 12 cr max) On Demand Max 12 cr. PREREQUISITE: To be determined based on actual topic offered. Courses not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number. Co-sponsored with CSCI 591.

Term  
CERN  
Section  
Session/Dates  
Days  
Location  
Time  
2018 Summer  
11358  
001  
First Half  
-  
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Session

CSCI 591. Special Topics. 1-4 Credits. (1-4 Lec; 12 cr max) On Demand Max 12 cr. PREREQUISITE: Upper division courses and others as determined for each offering. Courses not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number. Co-sponsored with CSCI 491.

Term  
CERN  
Section  
Session/Dates  
Days  
Location  
Time  
2018 Summer  
11520  
002  
Non-standard  
-  
-  
Session
2018 Summer  
11209  
001  
Non-standard  
-  
-  
Session

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  
CERN  
Section  
Session/Dates  
Days  
Location  
Time  
2018 Summer  
10101  
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.