

COLUMBIA-GREENE COMMUNITY COLLEGE: COMPUTER SCIENCE A. S.
THE COLLEGE OF SAINT ROSE: COMPUTER SCIENCE B.S.

DEGREE REQUIREMENTS

SAINT ROSE REQUIREMENTS:

COLUMBIA-GREENE EQUIVALENCIES:

I. LIBERAL EDUCATION REQUIREMENTS (41 cr.):

L01: Expository Writing, Oral Communication, Research Techniques (4 cr.)

ENG 105 (4)

EN 101 Composition (3) *Note 1*

L02: Study of Language (3 cr.)

Foreign Language, or American Sign Language

Foreign Language Elective (3) *Note 2**

L03: Historical Knowledge, Analysis, and Perspective (3 cr.)

History

History Elective (3) *Note 2**

L04: Artistic Knowledge and Interpretation: Literature (4 cr.)

Literature

EN 102 Composition & Literature (3) *Note 2**

L05: Artistic Knowledge and Interpretation (3 cr.)

Art, Music, Communications, and Drama

Fine Arts Elective (3) *Note 2**

L06: Philosophical, Spiritual, or Theological Inquiry (3 cr.)

Philosophy or Religious Studies

Philosophy Elective (3) *Note 2**

L07: Mathematics (3 cr.)

Mathematics

MA 111 Pre-calculus (4)

L08: Computer Science (3 cr.)

Computers

CS 134 Computer Science & Informatics
Science I (4)

L09: Scientific Knowledge and Inquiry (4 cr.)

Laboratory Science (Biology, Chemistry, Physics or Earth Science)

Science with Lab *Note 3**

L10: Behavioral and Social Sciences 1 (3 cr.)

Economics, Political Science or Business

Social Science Elective (3) *Note 2**

L11: Behavioral and Social Sciences 2 (3 cr.)

Anthropology, Criminal Justice, Psychology, Sociology, and Social Work

Social Science Elective (3) *Note 2**

L12: Wellness and Physical Fitness (2 cr.)

Physical Education

Physical Education Elective (2) *Note 2 & 4**

L13: Further Disciplinary Study (3 cr.)

A second liberal education course in a same discipline as a previously taken course.

II. GENERAL ELECTIVES:

MINIMUM TOTAL HOURS REQUIRED: 122

MAXIMUM CREDIT HOURS TRANSFERABLE: 62

III. MAJOR REQUIREMENTS (61cr.):

Major in Computer Science:

CSC 202 Introduction to Programming (4)
CSC 205 Windows Programming I (4)
CSC 252 Problem Solving with Java (4)
CSC 302 Data Structures (4)
CSC 321 Database Management (4)
CSC 332 Microcomputer Architecture and Programming (3)
CSC 431 Algorithms (3)
CSC 432 Operating Systems (3)
CSC 433 Programming Languages (3)
CSC 434 Software Engineering (3)
MAT 190 Calculus I (4)
MAT 191 Calculus 2 (4)
MAT 184 Elementary Statistics (4)
or
MAT 372 Introduction to Probability Theory (3)
MAT 220 Foundations of Mathematics (3)
or
MAT 295 Discrete Math (3)

CSC Electives from the following: (12 cr.)

CSC 305 Windows Programming 2 (4)
CSC 311 Computer Graphics (3)
CSC 317 Forensic Computing (3)
CSC 342 Artificial Intelligence (3)
CSC 344 Computer Networks (3)
CSC 355 Internet Programming 1 (3)
CSC 404 Animation and Rendering (3)
CSC 405 Computer Game Design (3)
CSC 414 Bioinformatics 1 (3)
CSC 415 Bioinformatics 2 (3)
CSC 444 Advanced Networking (3)
CSC 451 Embedded Systems 1 (3)
CSC 452 Embedded Systems 2 (3)
CSC 455 Internet Programming 2 (3)
CSC 453 Programming Mobile Devices (3)
CSC 460 Search and Information Retrieval (3)

Columbia-Greene Course Equivalencies:

CS 256 Computer Science II (4)
CS 154 Java Programming (3)
CS 203 Database Concepts (3) *Note 6*

MA 122 Calculus I (4) *Note 5*
MA 123 Calculus II (4) *Note 5*
MA 102 Statistics (3) *Note 5*

CS 241 Computer Forensics (3) *Note 6*

CS 156 Network Essentials (3) *Note 6*

CS 227 Intro Network Administration (3) *Note 6*

Notes for Columbia-Greene Community College -The College of Saint Rose Computer Science Agreement:

- 1) EN 101 Composition (3) will fulfill the L01 Liberal Education requirement.
- 2) 62 is the maximum number of credits allowed for transfer into The College of Saint Rose. All possible electives are listed in this agreement and the student, along with his/her advisor, should select the most appropriate courses to complete his/her degree while not unnecessarily exceeding the number of credits required for the A.S. degree. Students are encouraged to use their credits in General Electives at Columbia-Greene Community College to fulfill the 12 liberal education requirements at The College of Saint Rose.
- 3) To fulfill the L09 Liberal Education requirement, a student must complete a science course WITH a lab.
- 4) 2 credits in physical education are required to fulfill the L12 Physical Education requirement and 4 credits are the maximum allowed for transfer.
- 5) The student should use his/her Mathematics Electives at Columbia-Greene Community College to fulfill the mathematics requirements for the major (Calculus I, Calculus II and Statistics).
- 6) Students at Columbia-Greene CC should choose the computer science courses listed in this agreement as his/her Computer Science Electives, these include: CS 156, 203, 227 and 241.
- 7) The maximum number of credits allowed for transfer into Saint Rose is 62.
- 8) A letter grade of C- or higher in each course is required for transfer into The College of Saint Rose. Any completed coursework with a grade lower than a C- will not be transferred.
- 9) This document is valid until the time which either party changes their respective program. At which point review will be required.

* The College of Saint Rose Transfer Equivalency Database and/or catalog should be consulted to ensure that selected coursework will fulfill the appropriate Liberal Education Requirement as designated by the "L0" next to the course credits in the "LIBED" column: <http://www.strose.edu/officesandresources/registrar/transferequivalency>

CONTACTS:

The College of Saint Rose:


Robert Garofallou-Hogan
Assistant Registrar for Transfer Articulation
HoganR@strose.edu
Registrar's Office
(518) 458-5458

Columbia-Greene Community College:

William Mathews
Professor and Counselor
Mathews@sunycgcc.edu
Counseling, Career and Transfer Services
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SIGNATURES:

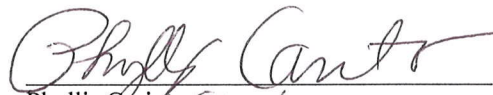
The College of Saint Rose



John Avitabile
Department Chair, Computer Information Systems

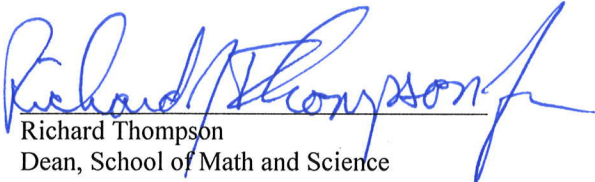
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Date

Columbia-Greene Community College



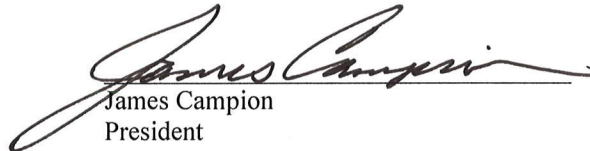
Phyllis Cario-Carito
Vice President/Dean of Academic Affairs

12/11/2013
Date



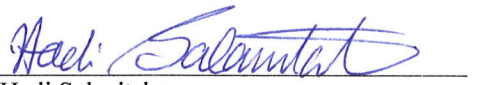
Richard Thompson
Dean, School of Math and Science

1/13/14
Date



James Campion
President

12/12/13
Date



Hadi Salavitabar
Provost/Vice President for Academic Affairs

1/16/14
Date