FULTON MONTGOMERY COMMUNITY COLLEGE: COMPUTER SCIENCE A.S.
THE COLLEGE OF SAINT ROSE: CYBERSECURITY B.S.

DEGREE REQUIREMENTS

SAINT ROSE REQUIREMENTS:	FULTON MONTGOMERY EQUIVALENCIES:

I. LIBERAL EDUCATION REQUIREMENTS (41 cr.):

SAINT ROSE REQUIREMENTS	FULTON MONTGOMERY EQUIVALENCIES
L01: Comm. through Reading, Writing, Speaking & Listening (4 cr.) ENG 105 Expository Writing, Oral Communication & Research Techniques	ENG 103 English I (3) AND ENG 104 English II (3)
L02: Study of Language (3 cr.) Foreign Language, American Sign Language, Linguistics, Or Philosophy of Language	Foreign Language Elective (3) *Note 1*
L03: Historical Knowledge, Analysis, and Perspective (3 cr.) History	History Elective (3) *Note 1*
L04: Artistic Knowledge and Interpretation: Literature (4 cr.) Literature	Literature Elective (3) *Note 1*
L05: Artistic Knowledge and Interpretation (3 cr.) Art, Music, Communications, and Drama	Fine Arts Elective (3) *Note 1*
L06: Philosophical, Spiritual, or Theological Inquiry (3 cr.) Philosophy or Religious Studies	Philosophy Elective (3) *Note 1*
L07: Mathematical Reasoning (3 cr.) Mathematics	MAT 170 Calculus I (4)
L08: Information Technology (3 cr.) Computers	CIS 116 Computer Science I (3)
L09: Scientific Knowledge and Inquiry (4 cr.) Laboratory Science (Biology, Chemistry, Physics or Earth Science)	Lab Science Elective (3-4)
L10: Behavioral and Social Sciences 1 (3 cr.) Economics, Political Science or Business	BUS 205 Principles of Management (3)
L11: Behavioral and Social Sciences 2 (3 cr.) Psychology, Sociology, and Social Work	PSY 101 Intro to Psychology (3)
L12: Wellness and Physical Fitness (2 cr.) Physical Education	Physical Education Elective (2)
L13: Further Disciplinary Study (3 cr.) A second liberal education course in a same discipline as a previously taken course.	MAT 173 Discrete Mathematics (4)

II. GENERAL ELECTIVES:

CIS 110 Spreadsheets/Database for Prof (3)
CIS 250 Project Management (3)
CIS 256 Data Structures (3)

III. MAJOR REQUIREMENTS (61cr.):

<u>**Major in Cybersecurity:**</u>

CSC 202 Introduction to Programming (4)
CSC 317 Forensic Computing (3)
CSC 318 Applications for Cyber Security (3)
CSC 321 Database Management (4)
CSC 325 Practical Cyber Security (3)
CSC 338 System Administration (3)
CSC 344 Computer Networks (3)
CSC 345 Operating System Fundamentals (3)
CSC 468 Cloud Computing & Virtual Tech (3)
CSC 470 Cyber Security Case Study: Insider Threat (3)
CSC 471 Cyber Security Case Study: Internet of Things (3)
CSC xxx CSC Elective (3)

MAT 184 Elementary Statistics (4)

CJS 440 Cyber Law & Criminal Investigation (4)
CJS xxx CJS Elective (3)

PSY 111 Foundations of Psychology 2 (3)
PSY 376 Industrial/Organizational Psychology (3)
BUS 246 Organizational Behavior (3)
BUS 362 Human Resource Management (3)

<u>**Fulton Montgomery Course Equivalencies:**</u>

CIS 126 Computer Science II (3)

CIS 160 Database Design & Programming (3)

CIS 241 Networking Concepts (3)

CIS 240 Hardware Concepts (3)

MAT 125- Statistics (3) *Note 1*

PSY 101 Intro to Psychology (3)

BUS 205 Principles of Management (3) *Note 1*
BUS 151 Human Resource Management (3) *Note 1*

<u>Notes for Fulton Montgomery Community College - The College of Saint Rose Cybersecurity Agreement:</u>

1) 70 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.
2) 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.
3) This document is valid until the time which either party changes their respective program. At which point review/revision will be required.
4) 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 Requirements as designated by the "L0" next to the course credits.
5) The Transfer Equivalency Database is the most current tool to utilize when determining the transferability of credits into The College of Saint Rose. The Transfer Equivalency Database can be accessed by visiting the link below:

Contacts:
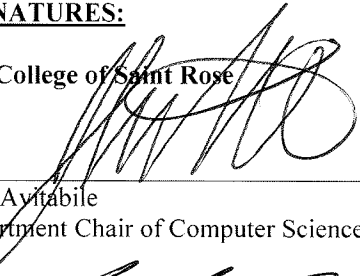
The College of Saint Rose:
Rachael French- Associate Director:
Transfer Enrollment & Articulations
(518) 485-3387

Fulton Montgomery Community College:
Andrea Scribner
Education & Career Planning Specialist
(518) 736-3622 ext. 8161

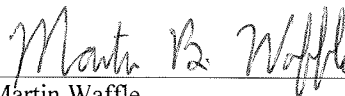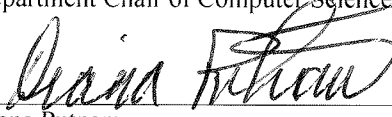## SIGNATURES:

The College of Saint Rose

John Avitabile
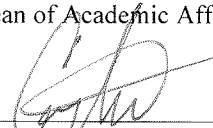Department Chair of Computer Science

Ian MacDonald
Interim Dean, School of Math and Science

Steven Ralston
Provost/Vice President for Academic Affairs

Fulton Montgomery Community College

Martin Waffle
Department Chair of Computer Science

Diana Putnam
Dean of Academic Affairs

Greg Truckenmiller
Provost/Vice President for Academic Affairs

September 2018

Fulton Montgomery Community College: Computer Science A.S.
The College of Saint Rose: Cybersecurity B.S.

PLEASE KNOW: *This is an* EXAMPLE *of a plan that a student may follow when transferring from FMCC to The College of Saint Rose for a BS in Cybersecurity. All students must work with advisors at both institutions to ensure satisfactory progress toward the completion of these programs.*

ENG 103: English I (3) CIS 110: Spreadsheets/Databases for Prof (3) CIS 116: Computer Science I (3) Foreign Language Elective (3) History Elective (3) **TOTAL: 15 sh**	ENG 104: English II (3) CIS 126: Computer Science II (3) CIS 160: Database Design & Programming (3) MAT 170: Calculus I (4) CIS 240: Hardware Concepts (3) **TOTAL: 16 sh**
CIS 256- Data Structures (3) CIS 241: Networking Concepts (3) MAT 173: Discrete Mathematics (4) PSY 101: General Psychology (3) Fine Arts Elective (3) Physical Education or Wellness Education (1) **TOTAL: 17 sh**	CIS 250: Project Management (3) General Education Selection (3) Literature Elective (3) Lab Science Elective (3-4) Physical Education or Wellness Education (1) **TOTAL: 13-14 sh**

Year 3 (The College of Saint Rose)	
Semester 5	**Semester 6**
CSC 317: Forensic Computing (3) CSC 345: Operating System Fundamentals (3) Philosophy or Religious Studies Selection (3) MAT 184: Elementary Statistics (4) BUS 246: Organizational Behavior (3) **TOTAL: 16 sh**	CSC 338: Systems Administration (3) CSC 325: Practical Cyber Security (3) CJS Elective (3) General Elective (3) General Elective (3) **TOTAL: 15 sh**

Year 4 (The College of Saint Rose)	
Semester 7	**Semester 8**
CSC 468: Cloud Computing & Virtual Tech (3) CSC 470: Cyber Case Study: Insider Threat (3) CJS 4xx: Cyber Crimes (4) BUS 362: Human Resource Management (3) General Elective (3) **TOTAL: 16 sh**	CSC 318: Applications for Cybersecurity (3) CSC 473: Cyber Case Study: Internet of Things (3) PSYC 376: Industrial/Org Psychology (3) General Elective (3) General Elective (1-3)* **TOTAL: 13-15 sh**

TOTAL CREDITS: 122 sh

NOTES

*General Elective requirement in last semester varies depending on number of credits needed to reach 122 overall. It may be 1-3 credits total.

Some courses are offered Fall or Spring only, work with an advisor to ensure proper course sequencing