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

DEGREE REQUIREMENTS

SAINT ROSE REQUIREMENTS:  

I. LIBERAL EDUCATION REQUIREMENTS (41 cr.):

L01: Comm. through Reading, Writing, Speaking & Listening (4 cr.)
ENGL 105 Expository Writing, Oral Communication & Research Techniques

L02: Study of Language (3 cr.)
Foreign Language, American Sign Language, Linguistics,
Or Philosophy of Language

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

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

L05: Artistic Knowledge and Interpretation (3 cr.)
Art, Music, Communications, and Drama

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

L07: Mathematical Reasoning (3 cr.)
Mathematics

L08: Information Technology (3 cr.)
Computers

L09: Scientific Knowledge and Inquiry (4 cr.)
Laboratory Science (Biology, Chemistry, Physics or Earth Science)

L10: Behavioral and Social Sciences 1 (3 cr.)
Economics, Political Science or Business

L11: Behavioral and Social Sciences 2 (3 cr.)
Psychology, Sociology, and Social Work

L12: Wellness and Physical Fitness (2 cr.)
Physical Education

L13: Further Disciplinary Study (3 cr.)
A second liberal education course in a same
discipline as a previously taken course.

II. GENERAL ELECTIVES:

FULTON MONTGOMERY EQUIVALENCIES:

ENG 103 English I (3) AND
ENG 104 English II (3)

Foreign Language Elective (3) Note 1

History Elective (3) Note 1

Literature Elective (3) Note 1

Fine Arts Elective (3) Note 1

Philosophy Elective (3) Note 1

MAT 170 Calculus I (4)

CIS 116 Computer Science I (3)

Lab Science Elective (3-4)

BUS 205 Principles of Management (3)

PSY 101 Intro to Psychology (3)

Physical Education Elective (2)

MAT 173 Discrete Mathematics (4)

CIS 110 Spreadsheets/Database for Prof (3)
CIS 250 Project Management (3)
CIS 256 Data Structures (3)
MINIMUM TOTAL HOURS REQUIRED: 122

III. MAJOR REQUIREMENTS (61cr.):

Major in Cybersecurity:
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)

Fulton Montgomery Course Equivalencies:
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

Notes for Fulton Montgomery Community College - The College of Saint Rose Cybersecurity Agreement:

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:

HTTP://WWW.SIROSE.EDU/OFFICESANDRESOURCES/REGISTRAR/TRANSFEREQUIVALENCY
Contacts:
The College of Saint Rose:
Rachael French- Associate Director:
Transfer Enrollment & Articulations
(518) 485-3387

SIGNATURES:
The College of Saint Rose

[Signature]
John Avallone
Department Chair of Computer Science

[Signature]
Ian MacDonald
Interim Dean, School of Math and Science

[Signature]
Steven Ralston
Provost/Vice President for Academic Affairs

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

Fulton Montgomery Community College

[Signature]
Martin Waffle
Department Chair of Computer Science

[Signature]
Diana Putnam
Dean of Academic Affairs

[Signature]
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.

<table>
<thead>
<tr>
<th>Year 1 (FMCC)</th>
<th>Year 2 (FMCC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 103: English I (3)</td>
<td>ENG 104: English II (3)</td>
</tr>
<tr>
<td>CIS 110: Spreadsheets/Databases for Prof (3)</td>
<td>CIS 126: Computer Science II (3)</td>
</tr>
<tr>
<td>CIS 116: Computer Science I (3)</td>
<td>CIS 160: Database Design &amp; Programming (3)</td>
</tr>
<tr>
<td>Foreign Language Elective (3)</td>
<td>MAT 170: Calculus I (4)</td>
</tr>
<tr>
<td>History Elective (3)</td>
<td>CIS 240: Hardware Concepts (3)</td>
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<tr>
<td><strong>TOTAL: 15 sh</strong></td>
<td><strong>TOTAL: 16 sh</strong></td>
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<tr>
<td>CIS 256- Data Structures (3)</td>
<td>CIS 250: Project Management (3)</td>
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<tr>
<td>CIS 241: Networking Concepts (3)</td>
<td>General Education Selection (3)</td>
</tr>
<tr>
<td>MAT 173: Discrete Mathematics (4)</td>
<td>Literature Elective (3)</td>
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<td>PSY 101: General Psychology (3)</td>
<td>Lab Science Elective (3-4)</td>
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<tr>
<td>Fine Arts Elective (3)</td>
<td>Physical Education or Wellness Education (1)</td>
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<tr>
<td>Physical Education or Wellness Education (1)</td>
<td><strong>TOTAL: 13-14 sh</strong></td>
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<td><strong>TOTAL: 17 sh</strong></td>
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**Year 3 (The College of Saint Rose)**

<table>
<thead>
<tr>
<th>Semester 5</th>
<th>Semester 6</th>
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<tbody>
<tr>
<td>CSC 317: Forensic Computing (3)</td>
<td>CSC 338: Systems Administration (3)</td>
</tr>
<tr>
<td>CSC 345: Operating System Fundamentals (3)</td>
<td>CSC 325: Practical Cyber Security (3)</td>
</tr>
<tr>
<td>Philosophy or Religious Studies Selection (3)</td>
<td>CJS Elective (3)</td>
</tr>
<tr>
<td>MAT 184: Elementary Statistics (4)</td>
<td>General Elective (3)</td>
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<td>BUS 246: Organizational Behavior (3)</td>
<td>General Elective (3)</td>
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<tr>
<td><strong>TOTAL: 16 sh</strong></td>
<td><strong>TOTAL: 15 sh</strong></td>
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</tbody>
</table>

**Year 4 (The College of Saint Rose)**

<table>
<thead>
<tr>
<th>Semester 7</th>
<th>Semester 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 468: Cloud Computing &amp; Virtual Tech (3)</td>
<td>CSC 318: Applications for Cybersecurity (3)</td>
</tr>
<tr>
<td>CSC 470: Cyber Case Study: Insider Threat (3)</td>
<td>CSC 473: Cyber Case Study: Internet of Things (3)</td>
</tr>
<tr>
<td>CJS 4xx: Cyber Crimes (4)</td>
<td>PSYC 376: Industrial/Org Psychology (3)</td>
</tr>
<tr>
<td>BUS 362: Human Resource Management (3)</td>
<td>General Elective (3)</td>
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<tr>
<td>General Elective (3)</td>
<td>General Elective (1-3)*</td>
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<tr>
<td><strong>TOTAL: 16 sh</strong></td>
<td><strong>TOTAL: 13-15 sh</strong></td>
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**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.*