Transfer Guide

Associate of Applied Science Information Technology-Cyber Systems Option to Bachelor of Science in Computer Science, Networking and Data Communication Concentration

The following is presented as an articulation agreement between Prairie State College (PSC) and Olivet Nazarene University (ONU) for the Information Technology- Cyber Systems Option degree program based on the current catalogs of both schools. The student would receive an Associate of Applied Science (AAS) degree from PSC and a Bachelor of Science (BS) degree in Computer Science, Networking and Data Communication Concentration from ONU.

I. Transferable Credits from the General Education Core Curriculum

Area 1: Communication (9 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Equivalent Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101 Composition I</td>
<td>ENGL 109 College Writing I (3)</td>
</tr>
<tr>
<td>ENG 102 Composition II</td>
<td>ENGL 210 College Writing II (3)</td>
</tr>
<tr>
<td>COMM 101 Prin. of Communication</td>
<td>COMM 105 Fund. of Speech (3)</td>
</tr>
</tbody>
</table>

Area 2: Social & Behavioral Sciences** (6 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Equivalent Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST-151 or HIST-152 History Civilization I or II</td>
<td>HIST-200 Western Civilization (3)</td>
</tr>
</tbody>
</table>

AND Select one Social & Behavioral Sciences course- (3)

<table>
<thead>
<tr>
<th>Course</th>
<th>Equivalent Course</th>
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</thead>
<tbody>
<tr>
<td>ECON-201 or ECON-202 Economics I or II</td>
<td>ECON-110 Principles of Economics</td>
</tr>
<tr>
<td>POLSC 140 Intro to US Gov’t &amp; Politics</td>
<td>PSCI-223 American Government</td>
</tr>
<tr>
<td>PSYCH-101 Intro to Psychology</td>
<td>PSYC-101 Intro to Psychology</td>
</tr>
<tr>
<td>SOCIO-101 Intro to Sociology</td>
<td>SOCY-120 Intro to Sociology</td>
</tr>
</tbody>
</table>

Area 3: Humanities, Fine Arts, & Literature **(6 hours) Select 3 hours from TWO different areas:

**Fine Arts**

<table>
<thead>
<tr>
<th>Course</th>
<th>Equivalent Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 129 Art Appreciation</td>
<td>ART 100 AND MULT 100 (3)</td>
</tr>
<tr>
<td>HUMAN 202 Form/Structure Art</td>
<td>ART 100 AND MULT 100 (3)</td>
</tr>
<tr>
<td>MUSIC 130 Music Appreciation</td>
<td>ART 100 AND MULT 100 (3)</td>
</tr>
</tbody>
</table>
Literature
ENG 240 Intro to Fiction LIT 105 Studies in Literature (3)
ENG 221 Intro to Poetry LIT 105 Studies in Literature (3)

Philosophy
PHILO 101 Intro to Philosophy PHIL 201H Intro to Philosophy (3)

Foreign Language
SPAN 202 Spanish SPAN 212H Intermediate Spanish II (3)

Area 4: Mathematics/Sciences (11 hours)
MATH 112 Gen Ed Math MATH 103 Math for Lib. Arts (3) required for ONU

Select one general physical science and one general biological science class. One class must have a lab.
General Physical Science Course (3-5 hours)**
General Biological Science Course (3-4 hours)**

II: Area of Concentration (44)

IT 101 IT Orientation (1)- required for AAS degree ONU prefers students complete the AAS degree prior for transfer.
IT 140 Intro to Operating Systems (meets COMP 227) (3)
IT 201 Systems Design & Development (meets BSNS 403) (3)
IT 205 Ethics in Information Technology (meets COMP 334) (2)
IT 240 Linux Operating Systems (meets COMP 332 when completed IT 240 & IT 253) (3)
IT 253 Linux System Administration (meets COMP 332 when completed IT 240 & IT 253) (3)
ITCYB 103 Intro to Cybersecurity (meets COMP 130) (2)
ITCYB 143 Scripting & Security (meets COMP 260) (3)
ITNET 160 Computer Repair (meets COMP 141 AND COMP 142) (4)
ITNET 165 Intro to Networking (meets COMP 237) (3)
ITNET 175 Intro to Networking II (meets COMP 238) (3)
ITNET 235 CCNA LAN Design (meets COMP 238) (3)
ITPRG 158 Python Programming (meets COMP 150) (3)
ITNET 250 Intro to LAN Administration (meets COMP 227) (3)
ITNET 260 Network Security Fundamentals (meets COMP 337) (3)
ITNET 263 Advanced Windows Server Administration (meets COMP 333) (3)
**Refer to the PSC AAS guidelines for a list of course choices in the general education area. The courses listed are recommended but not limited to.**

**Required A.A.S. Degree Program Total: 60 Credit Hours transferrable hours**

75 PSC credits transfer to ONU as written above, see next page for more options.

Students may transfer in a maximum of 82 credit hours from a 2yr/Community College.

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### III: Taken at Olivet Nazarene University (min. 44 Credit Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLIT 210</td>
<td>Christian Scriptures</td>
<td>(3)</td>
</tr>
<tr>
<td>CMIN 310</td>
<td>Christian Formation</td>
<td>(3)</td>
</tr>
<tr>
<td>COMP 120</td>
<td>Intro to Programming</td>
<td>(2)</td>
</tr>
<tr>
<td>COMP 246</td>
<td>Database Programming</td>
<td>(2)</td>
</tr>
<tr>
<td>COMP 247</td>
<td>Database Design &amp; Administration</td>
<td>(2)</td>
</tr>
<tr>
<td>COMP 355</td>
<td>Agile Methodologies</td>
<td>(3)</td>
</tr>
<tr>
<td>SPAN 112</td>
<td>Elem Spanish II (or can take SPAN 102 at PSC)</td>
<td>(3)</td>
</tr>
<tr>
<td>Stewardship</td>
<td>See list of classes below</td>
<td>(3)</td>
</tr>
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</table>

**Plus Completion of One Concentration:**

**Networking and Data Communications Concentration**

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>COMP 125</td>
<td>Cloud Foundations</td>
<td>(2)</td>
</tr>
<tr>
<td>COMP 230</td>
<td>ServerOps</td>
<td>(3)</td>
</tr>
<tr>
<td>COMP 338</td>
<td>Wireless Technologies &amp; RF</td>
<td>(3)</td>
</tr>
<tr>
<td>COMP 345</td>
<td>Cloud Architecture</td>
<td>(3)</td>
</tr>
<tr>
<td>COMP 348</td>
<td>Packet Analysis &amp; Inspection</td>
<td>(3)</td>
</tr>
<tr>
<td>COMP 360</td>
<td>Cryptography &amp; Blockchain</td>
<td>(3)</td>
</tr>
<tr>
<td>COMP 420</td>
<td>Risk Mgmt &amp; Bsns Continuity Planning</td>
<td>(3)</td>
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**Recommended Supporting Classes:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 493</td>
<td>Software Research &amp; Dev. Project</td>
<td>(2)</td>
</tr>
<tr>
<td>COMP 494</td>
<td>Internship</td>
<td>(1-3)</td>
</tr>
<tr>
<td>ENGL 311</td>
<td>Business Comm/Tech Writing</td>
<td>(3)</td>
</tr>
<tr>
<td>FACS 312</td>
<td>Professional Image &amp; Dress</td>
<td>(1)</td>
</tr>
</tbody>
</table>

**Software Development Concentration**

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>COMP 125</td>
<td>Cloud Formations</td>
<td>(2)</td>
</tr>
<tr>
<td>COMP 250</td>
<td>Programming: Data Structures</td>
<td>(3)</td>
</tr>
<tr>
<td>COMP 340</td>
<td>Human Computer Interface</td>
<td>(3)</td>
</tr>
</tbody>
</table>
COMP 350 Programming: Object Oriented (meets PSC ITPRG 247) (3)
COMP 360 Cryptography & Blockchain (3)
COMP 381 Systems Programming (4)
COMP 445 Big Data (3)
COMP 475 Theory of Computation (3)
MATH 137 OR MATH 147 Applied Calculus OR Calculus I (meets PSC MATH 157 or PSC MATH 171) (3-4)
MATH 311 Discrete Math (meets PSC MATH 210) (3)

**Choose 2 out of 4 Options:**
- COMP 322 Mobile Application Development (3)
- COMP 325 Cloud Development (3)
- COMP 330 Web Development (meets PSC ITPRG 157) (3)
- COMP 347 Machine Learning/Artificial Intelligence (3)

**Recommended Supporting Classes:**
- COMP 493 Software Research & Dev. Project (2)
- COMP 494 Internship (1-3)
- ENGL 311 Business Comm/Tech Writing (3)
- FACS 312 Professional Image & Dress (1)
- MATH 241 Statistics (meets PSC MATH 153) (4)

**Software Entrepreneurship Concentration**
- COMP 125 Cloud Formations (2)
- COMP 250 Programming: Data Structures (meets PSC ITPRG 147) (3)
- COMP 340 Human Computer Interface (3)
- COMP 350 Programming: Object Oriented (meets PSC ITPRG 247) (3)
- COMP 360 Cryptography & Blockchain (3)
- COMP 381 Systems Programming (4)
- COMP 493 Software Research & Dev. Project (2)
- ACCT 110 Financial Accounting (meets PSC BUS 131) (4)
- BSNS 160 Principles of Management (meets PSC BUS 241) (3)
- BSNS 253 Principles of Marketing (meets PSC BUS 251) (3)
- MATH 117 OR 137 OR 147 Finite Math OR Applied Calculus OR Calculus I (meets PSC MATH 155 OR PSC MATH 157 OR PSC MATH 171) (3-4)

**Choose 2 out of 6 Options:**
- COMP 322 Mobile Application Development (3)
- COMP 325 Cloud Development (3)
- COMP 330 Web Development (meets PSC ITPRG 157) (3)
COMP 347  Machine Learning/Artificial Intelligence (3)
COMP 445  Big Data (3)
COMP 475  Theory of Computation (3)
Recommended Supporting Classes:
COMP 494  Internship (1-3)
ENGL 311  Business Comm/Tech Writing (3)
FACS 312  Professional Image & Dress (1)
MATH 241  Statistics (meets PSC MATH 153) (4)

Olivet Nazarene University Graduation Requirements

- Minimum credit hours required for BS in Computer Science: 120 credit hours
- A minimum grade point average of 2.0 (“C”) required.
- A minimum of a “C” grade is required for major and supporting coursework.
- A minimum institutional grade point average of 2.0 required.
- A minimum of 30 hours of credit in upper-division courses (numbered 300 or above) for bachelor’s degrees
- Completion of a major program of study as specified by the College, School, or Department to which the major belongs including:
  - All general Education courses
  - All major and supporting courses
- Lower-level courses may cover the same material as the ONU equivalent, but is taught at a lower level. It cannot be used to satisfy the Olivet requirement of 30 upper division hours (300-400 level courses).

For additional Information:
Olivet Nazarene University
Office of Admissions
800-648-1463
http://www.olivet.edu/transfer-equivalency
Tiffany Holohan
Dir. of Community College & Academic Partnerships
tmholohan@olivet.edu
815-928-5515

Prairie State College

Stewardship (2-3 Hours)

BSNS 302 Personal Finance
CDEV 360 Child Family Relations
COMM 203 Interpersonal Comm.
PHED 126 Nutrition, Health, & Fit.
FACS 252 Consumer Economics
PHED 190 Wellness
SOCY 305 Human Sexuality
SOCY 340 Sociology of Marriage
SOCY 351 Sociology of the Family
SOWK 365 Crisis Intervention

PSC COMM 108 Inter. Comm.
PSC PES 230 Nutrition for Exercise
PSC HLTH 101 Health & Wellness
PSC PSYCH 217 Human Sexuality
PSC SOCIO 210 Marriage & Family
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708-709-2959  
bdonovan@prairiestate.edu