

## *SOFTWARE ENGINEERING COURSE EQUIVALENTS* 1998 Edition

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|--|---|------------------------------------|--|
| <b>98-Soft-A1</b><br>CMPUT 115<br>&<br>CMPUT 204                             | Data Structures<br>Programming with Data<br>Structures<br>Algorithms I  | CPSC 331                           | Information Structures   |
| <b>98-Soft-A2</b><br>EE 280<br>&<br>EE 380<br>&<br>CMPE 382<br>OR the follow | Digital Computer Architecture<br>Introduction to Digital<br>Electronics<br>Introduction to<br>Microprocessors<br>Computer Architecture<br>ving CMPUT sequence | ENEL 353<br>ENCM 369               | Digital Circuits<br>Computer Organization<br>wing CPSC sequence<br>Introduction to Logic Circuit<br>Design |
| CMPUT 229<br>&<br>CMPUT 329  | Computer Organization and<br>Architecture I<br>Computer Organization and<br>Architecture II   | CPSC 401                           | Computer Structure I   |
| <b>98-Soft-A3</b><br>CMPUT 379   | <b>Operating Systems</b><br>Operating System Concepts   | CPSC 457                           | Principles of Operating<br>Systems   |
| <b>98-Soft-A4</b><br>CMPUT 204<br>&<br>CMPUT 304                             | <b>Design and Analysis of Algori</b><br>Algorithms I<br>Algorithms II   | thms<br>CPSC 413<br>OR<br>CPSC 517 | Design and Analysis of<br>Algorithms I<br>Design and Analysis of<br>Algorithms II                          |

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| <b>Software Design</b><br>Introduction to Software<br>Engineering Process | SENG 311   | Principles of Software<br>Engineering   |  |  |  |
|---|--|---|--|--|--|
| Software process and<br>Product Management                                | SENG 411   | Human and Organizational<br>Aspects in Software<br>Engineering  |  |  |  |
| File and Database Systems   |  |   |  |  |  |
| Introduction to File and Database Management                              | CPSC 461   | File Processing   |  |  |  |
|   | CPSC 471   | Data Base Management<br>Systems   |  |  |  |
| Object-Oriented Analysis, Design, and Programming                         |  |   |  |  |  |
| Software Process and<br>Product Management                                | SENG 311   | Principles of Software<br>Engineering   |  |  |  |
|   |  | Ligineening   |  |  |  |
| Object-Oriented<br>Programming Languages                                  |  |   |  |  |  |
| Real Time Systems   |  |   |  |  |  |
| Computer Interfacing  | ENCM 491   | Real-Time Systems Design  |  |  |  |
| 98-Soft-B2 Advanced Object-Oriented Analysis and Design                   |  |   |  |  |  |
| Software Process  | SENG 411   | Human and Organizational  |  |  |  |
| Software Quality  |  | Aspects in Software<br>Engineering  |  |  |  |
|   | SENG 443   | Software Architectures  |  |  |  |
| Analysis and Design of User Interfaces                                    |  |   |  |  |  |
| User Interfaces and Software<br>Design                                    | CPSC 481   | Principles and Design of<br>Human-Computer Interaction  |  |  |  |
|   | Introduction to Software<br>Engineering Process<br>Software process and<br>Product Management<br>File and Database Systems<br>Introduction to File and<br>Database Management<br>Object-Oriented Analysis, Des<br>Software Process and<br>Product Management<br>Object-Oriented<br>Programming Languages<br>Real Time Systems<br>Computer Interfacing<br>Advanced Object-Oriented An<br>Software Process<br>Software Process<br>Software Process<br>Software Quality | Introduction to Software<br>Engineering ProcessSENG 311Engineering ProcessSENG 411Product ManagementSENG 411File and Database Systems<br>Introduction to File and<br>Database ManagementCPSC 461Database ManagementCPSC 471Object-Oriented Analysis, Design, and Prog<br>Software Process and<br>Product ManagementSENG 311Object-Oriented Analysis, Design, and Prog<br>Software Process and<br>Product ManagementSENG 311Object-Oriented<br>Programming LanguagesENCM 491Advanced Object-Oriented Analysis and De<br>Software ProcessENCM 491Advanced Object-Oriented Analysis and De<br>Software ProcessSENG 411Software QualitySENG 443Analysis and Design of User Interfaces<br>User Interfaces and SoftwareCPSC 481 |  |  |  |

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| <b>98-Soft-B4</b><br>CMPE 310<br>&<br>CMPE 410                  | Software Project Management<br>Software Engineering<br>Project I<br>Software Engineering<br>Project II   | t<br>SENG 411                                       | Human and Organizational<br>Aspects in Software<br>Engineering                                    |  |  |
|---|--|---|---|--|--|
|   |  | ENSF 583  | Fourth Year Software<br>Engineering Team Design<br>Project, Part A                                |  |  |
|   |  | ENSF 589  | Fourth Year Software<br>Engineering Team Design<br>Project, Part B                                |  |  |
| 98-Soft-B5  | Software Development for La  | rao Soolo Svet                                      | toms  |  |  |
| CMPE 310  | Software Engineering<br>Project I  | SENG 411  | Human and Organizational<br>Aspects in Software<br>Engineering                                    |  |  |
| CMPE 410  | Software Engineering<br>Project II   | SENG 421  | Software Metrics  |  |  |
|   |  | SENG 521  | Software Reliability and Testing  |  |  |
|   |  |   |   |  |  |
|   |  | otworks   |   |  |  |
| <b>98-Soft-B6</b><br>CMPUT 313                                  | <b>Computer Communications N</b><br>Telecommunications and<br>Computers  | etworks<br>CPSC 441                                 | Computer Communications   |  |  |
|   | Telecommunications and   |   | Computer Communications<br>No Course Equivalent   |  |  |
| CMPUT 313   | Telecommunications and<br>Computers<br>Security in Computing   | CPSC 441  |   |  |  |
| CMPUT 313<br>98-Soft-B7<br>98-Soft-B8                           | Telecommunications and<br>Computers Security in Computing<br>No Course Equivalent Software Evolution and Reeng<br>Software Engineering<br>Project II Computer Graphics<br>Introduction to Computer | CPSC 441  | No Course Equivalent  |  |  |
| CMPUT 313<br>98-Soft-B7<br>98-Soft-B8<br>CMPE 410<br>98-Soft-B9 | Telecommunications and<br>Computers Security in Computing<br>No Course Equivalent Software Evolution and Reeng<br>Software Engineering<br>Project II Computer Graphics                             | CPSC 441  | No Course Equivalent<br>No Course Equivalent  |  |  |
| CMPUT 313<br>98-Soft-B7<br>98-Soft-B8<br>CMPE 410<br>98-Soft-B9 | Telecommunications and<br>Computers Security in Computing<br>No Course Equivalent Software Evolution and Reeng<br>Software Engineering<br>Project II Computer Graphics<br>Introduction to Computer | CPSC 441<br>gineering<br>CPSC 453<br>OR<br>CPSC 407 | No Course Equivalent<br>No Course Equivalent<br>Computer Graphics I<br>Computer Visualization and |  |  |

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| <b>98-Soft-B11</b><br>CMPUT 507                | Distributed Systems<br>Parallel Programming   |                | No Course Equivalent   |
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| <b>98-Soft-B12</b><br>CMPUT 415                | Introduction to Compilers<br>Compiler Design  | CPSC 411       | Compiler Construction  |
| 98-Soft-B13                                    | Foundations of Modeling and<br>No Course Equivalent   | Simulations    | No Course Equivalent   |
| <b>98-Soft-B14</b><br>EE 602                   | Imaging Processing<br>Image Processing  |                | No Course Equivalent   |
| 98-Soft-B15<br>EE 654 SIMD                     | <b>Parallel Computing</b><br>Parallel Processor<br>Architectures and<br>Applications                            |                | No Course Equivalent   |
| &/OR<br>EMPUT 507                              | Parallel Programming  |                |  |
| <b>98-Soft-B16</b><br>EE 380<br>&/OR<br>EE 582 | Microprocessor-Based System<br>Introduction to<br>Microprocessors<br>Design of Microprocessor-<br>based Systems | ns<br>ENCM 415 | Assembly Language<br>Programming and Interfacing               |
| 98-Soft-B17                                    | <b>Software Quality Engineering</b><br>No Course Equivalent   | SENG 411       | Human and Organizational<br>Aspects in Software<br>Engineering |
|  |   | SENG 521       | Software Reliability and Testing                               |

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