IMPORTANT — Changes to requirements for Master of Software Engineering, effective Fall 2015.

After a recent industry review, Graduate Professional Studies is introducing changes to the program requirements for the Master of Software Engineering degree. What you need to know:

- Students already admitted into the Master of Software Engineering degree prior to April 15, 2015 must follow the program requirements under which they were admitted. These requirements are outlined below.

- Students who applied to the program after April 15, 2015 will follow the new program requirements posted on the Master of Software Engineering page for current students.

Please contact your student advisor with any questions or concerns.

Program Requirements for MSE students admitted prior to April 15, 2015.

**Required course**
- Software Development Methodologies

**Software Engineering Fundamentals Cluster (choose one)**
- RSEG 125 Foundations of Software Quality Assurance
- RSEG 131 Software Testing Techniques
- RSEG 126 Release Engineering and Configuration Management
- RSEG 127 Software Engineering Studio
- RSEG 122 Advanced Software Development Methodologies

**Design Cluster (choose one)**
- RSEG 109 Object Oriented Design
- RSEG 165 Design Patterns
- RSEG 167 Service Oriented Architecture
- RSEG 128 User Interface Design

**Advanced Programming Cluster (choose one)**
- RSEG102 Advanced Programming in Java
- RSEG103 Advanced Programming in C++
- RSEG105 Java Enterprise Programming
- RSEG108 Advanced C Programming for Unix/Linux
- RSEG113 Advanced Programming in C++ (Level 2)
- RSEG 180 Advanced Programming in C#
Electives (choose six)

- RIAS 120 Securing Applications, Web Services and SOA
- RIAS 130 Security Testing and Auditing
- RIAS 172 Network Security
- RIAS 190 Special Topics in Information Assurance and Security: Virtualization and Cloud Security
- RPJM 101 Foundations of Project Management
- RPJM 130 Agile Project Management
- RSEG 104 Advanced Programming in VB.Net
- RSEG 107 Advanced Programming in Perl
- RSEG 110 Unix Tools
- RSEG 145 Linux Administration
- RSEG 151 XML and Related Languages
- RSEG 160 Computer Networks and Data Communications
- RSEG 161 Web Development Technologies
- RSEG 170 Database Management
- RSEG 171 Data Warehousing and Data Mining
- RSEG 173 TCP/IP
- RSEG 185 Embedded Systems Programming
- RSEG 290 Special Topics in Software Engineering
- RVTM 140 Web Publishing and Content Management
- RSEG 175 Mobile Computing
- RSEG 176 Cloud Computing
- RSEG 177 Enterprise Application Development with Spring Framework
- RSEG 178 Windows Communication Foundation Programming with C# (former Special Topics)