

Master of Software Engineering Core/Elective Requirements Prior to March 15, 2012

Required course (1 Course)

RSEG 120 Software Development Methodologies

Testing/Software Quality (Choose 1)

RSEG 125 Foundations of Software Quality Assurance

RSEG 131 Software Testing Techniques

RSEG 135 Software Test Process Evaluation and Improvement

Design (Choose 1)

RSEG 109 Object-Oriented Design

RSEG 165 Design Patterns

RSEG 167 Service Oriented Architecture: Distributed Enterprise Computing

RSEG 168 Architecture for Business and E-Commerce

Advanced Programming Courses (Choose 1)

RSEG 102 Advanced Programming in Java

RSEG 103 Advanced Programming in C++

RSEG 104 Advanced Programming in VB.Net

RSEG 105 Java Enterprise Programming

RSEG 108 Advanced C Programming for Unix/Linux

RSEG 113 Advanced Programming in C++ (Level 2)

Electives (Choose 6)

RIAS 120 Securing Applications, Web Services and SOA

RIAS 172 Network Security

RMGT 115 Knowledge Management

RMGT 120 Legal and Ethical Practices in IT

RMGT 175 IT Security and Compliance

RPJM 101 Foundations of Project Management

RSEG 107 Perl Programming

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 180 Windows Programming with C#
RSEG 185 Embedded Systems Programming
RSEG 290 Special Topics in Software Engineering
RVTM 101 Foundations of Virtual Team Management across Cultures and Geographies
RVTM 140 Web Publishing and Content Management

Additional Electives (Choose 1)

RCOM 102 Professional Communications
RMGT 110 Organizational Leadership and Decision Making

Master of Software Engineering Core/Elective Requirements Effective March 16, 2012

Required Core Course (1 Course)

RSEG 120 Software Development Methodologies

Software Engineering Fundamentals Cluster (Choose 1)

RSEG 125 Foundations of Software Quality Assurance
RSEG 131 Software Testing Techniques
New Course: Release Engineering and Configuration Management
New Course: Software Engineering Studio
New Course: Advanced Software Development Methodologies

Design Cluster (Choose 1)

RSEG 109 Object Oriented Design
RSEG 165 Design Patterns
RSEG 167 Service Oriented Architecture
New Course: User Interface Design

Advanced Programming Cluster (Choose 1)

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 6)

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
New Course: Mobile Computing (former Special Topics)
New Course: Cloud Computing (former Special Topics)
New Course: Enterprise Application Development with Spring Framework (former Special Topics)
New Course: Windows Communication Foundation Programming with C# (former Special Topics)

Students who are not yet formally accepted to the degree program must submit a completed application for admission and all supporting materials for admission prior to March 15 in order to be accepted to the Master of Software Engineering before these changes in policy go into effect.

We encourage students to contact the office for advising on admissions and course selections. Questions or concerns about these changes may be directed to the Division of Graduate Professional Studies, (781) 736-8787 or GPS@brandeis.edu.