Brandeis University
Rabb School of Continuing Studies
Division of Graduate Professional Studies

GRADUATE CERTIFICATE IN SOFTWARE ENGINEERING
Certificate Requirements: 5-courses, 15-credits

Required Courses

RSEG 120	Software Development Methodologies

Choose 1 of the following Testing/Software Quality courses, the remainder of the courses may be taken as electives:

RSEG 125	Foundations of Software Quality Assurance
RSEG 135	Software Test Process Evaluation and Improvement
RSEG 131	Software Testing Techniques

Choose 1 of the following Advanced Programming courses, the remainder of the courses may be taken as electives:

RSEG 108	Advanced C Programming for Unix/Linux
RSEG 103	Advanced Programming in C++ Level 1
RSEG 113	Advanced Programming in C++ Level 2
RSEG 102	Advanced Programming in Java
RSEG 105	Java Enterprise Programming
RSEG 104	Advanced Programming in VB.NET

Choose 1 of the following Design courses, the remainder of the courses may be taken as electives:

RSEG 168	Architecture for Business and E-Commerce
RSEG 109	Object-Oriented Design
RSEG 167	Service Oriented Architecture: Distributed Enterprise Computing
RSEG 165	Design Patterns

Elective Courses

Choose 1 of the following courses, please note that any Special Topics Course may also be used as electives:

RSEG 160	Computer Networks and Data Communications
RSEG 171	Data Warehousing and Data Mining
RSEG 170	Database Management
RSEG 185	Embedded Systems Programming
RMGT 175	IT Security and Compliance
RMGT 115	Knowledge Management
RMGT 120	Legal and Ethical Practices in IT
RSEG 145	Linux Administration
RIAS 172	Network Security
RSEG 107	Perl Programming
RSEG 173	TCP/IP
RSEG 110	Unix Tools
RSEG 161	Web Development Technologies
RSEG 180	Windows Programming with C#
RSEG 151	XML and Related Languages
RPJM 101	Foundations of Project Management
RIAS 120	Securing Applications, Web Services and SOA
RVTM 101	Foundations Of Virtual Team Management and Communication
RVTM 140	Web Publishing and Content Management