



## **Notification of Request for Authorization under the Degree-Granting Institutions Act**

**Date posted:** December 23, 2014  
**Institution:** Northeastern University  
**Current status:** Authorized to offer degree programs in Washington State  
**Nature of request:** Authorization to offer an additional degree program at its Seattle campus  
**Proposed program:** Master of Science in Computer Systems Engineering  
**Location:** Northeastern University-Seattle  
401 Terry Avenue North  
Seattle, WA 98109

### **Background:**

Northeastern University is a private institution based in Boston, MA. It has been authorized to offer degree programs at its Seattle campus since May of 2012. It has been accredited by the New England Association of Schools and Colleges-Commission on Institutions of Higher education (NEASC-CIHE) since 1940.

### **Nature of the review:**

Prior to granting authorization to offer new degree programs in Washington State, the Washington Student Achievement Council/Degree Authorization reviews elements such as program outcomes, course requirements, method of course delivery, faculty credentials, and student services.

OR:

Prior to granting authorization to offer degree programs in Washington State, the Washington Student Achievement Council/Degree Authorization reviews elements such as institutional infrastructure, financial solvency, administrative staff qualifications, program outcomes, course requirements, method of course delivery, faculty credentials, and student services.

The program to be offered by Northeastern University appears to meet the requirements of the Degree-Granting Institutions Act.

Information on the additional programs can be found at the end of this notice.

### **Timeline:**

The Council will accept comments on this application until January 7, 2015.

Any individuals with knowledge that may indicate the institution and/or the program does not meet the authorization requirements of WAC 250-61 are requested to submit comments to:

[Degree Authorization](#).

If you would like to know more about the current law and regulations that govern the program, they can be found at the following links: the statute is [RCW 28B.85](#) and the regulation is [WAC 250-61](#).

Program Title:

**Master of Science in Computer Systems Engineering** with a concentration in:  
Engineering Software Design (coursework option)

Program Outcomes:

“The ability to use basic engineering concepts flexibly in a variety of contexts.

1. Application of advanced skills in engineering new software systems including systems requirements analysis and programming code.
2. Knowledge and skills centered on advanced software design techniques that improve the development of complex software systems in a cost-effective manner
3. Ability to implement security requirements through the software life cycle to ensure the proper and safe operations of software systems.”

Mode of Delivery: Hybrid – 80% on-ground; 20% online

Number of Credits: 32 semester hours

Required Courses: (all courses are 4 credits each unless otherwise noted)

Core Courses: (12 Credits)

CSYE 6205 Concepts of Object-Orientated Design with C++

CSYE 6220 Enterprise Software Design

CSYE 7230 Software Engineering

Electives Courses: (5 courses/20 credits from the courses listed below)

CSYE 6210 Component Software Development

CSYE 7215 Foundations of Parallel, Concurrent, and Multithreaded Programming

CSYE 7225 Mobile Wireless Computing

CSYE 7280 Human-Computer Interaction

CSYE 7374 Special Topics in Computer Systems Engineering

CSYE 7978 Independent Study

EMGT 5220 Engineering Project Management

INFO 5100 Application Engineering and Development

INFO 6210 Data Management and Database Design

INFO 6220 Operating Systems

INFO 6225 Networks, Telecommunications, and Distributed Systems

INFO 6240 C++ Object-Orientated Design

INFO 6250 Web Development Tools and Methods

INFO 7275 Advanced Database Management Systems

INFO 7285 Organizational Change and IT

INFO 7300 Engineering Secure Software Systems