

## Building Information Modeling Certificate – 783B

Requirements Effective Fall 2011

Program Planning Guide

**Program Description:** Building Information Modeling technology supports the principles of design and engineering and how the industry has made a paradigm shift to sustainability in whole building design. Students develop skills in building computer-generated models that unify architecture, engineering, construction and sustainability.

**Prerequisites:** Many classes have prerequisites. Prerequisites are those classes that prove eligibility for entry-level classes by testing or by having satisfied prior course work. Course work earned at other institutions must be unofficially evaluated or approved by a program advisor before registering.

**Building Information Modeling Certificate Prerequisites:** none

**Note:** Advanced placement testing, work experience, and transfer of credits may result in course waivers, credit transfer, and advanced placement.

<b>Program Requirements</b>		
<b>Course Number</b>	<b>Certificate Requirements (19 credits)</b>	<b>Credit Hours</b>
TDR 100	Basic BIM for Design & Construction	5
TDR 101	Intermediate BIM for Design & Construction	5
TDR 102	Advanced BIM for Design & Construction	5
TDR 103	Energy Analysis for BIM	4
		Total Credits: 19 (excluding prerequisites)

### Program Outcomes:

- Clearly produce construction drawings using 2D and 3D CAD software.
- Demonstrate ability to analyze structural and environmental effects of a building on the surrounding community.
- Demonstrate knowledge of building types.
- Demonstrate knowledge of infrastructure; i.e. HVAC, Electrical, and Plumbing.

### What Skills do I need to be successful in this field?

- <http://www.onetonline.org/link/summary/17-3011.01>

### What are some potential job titles?

- BIM Modeler
- BIM Technician
- BIM Project Coordinator

### Wages, employment trends and pathways:

- <http://www.onetonline.org/link/summary/17-3011.01#WagesEmployment>

**Course Sequence:** This program of study is outlined by quarter, and courses should be taken in the indicated sequence. However, it should not be concluded that students will always proceed through their program of study exactly as prescribed here. The number of quarters listed here is minimal. Not all courses are offered every quarter. Individual student experiences, educational and training background, and personal schedules and demands all may affect the time it takes to finish this program. Also, in general, summer quarter is not considered one of the full-time quarters in the program.

**1<sup>st</sup> quarter:** TDR 100

**2<sup>nd</sup> quarter:** TDR 101

**3<sup>rd</sup> quarter:** TDR 102

**4<sup>th</sup> quarter:** TDR 103

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**NSC Advising Office:** (206) 934-3658 <https://northseattle.edu/advising>

**Program Website:** <https://northseattle.edu/certificates/building-information-modeling-certificate>