

Nashville State Community College
Stem Division
CAD Certificate, & ACT, CIT, EETH A.A.S Programs

2018 Master Course Syllabus

CAD 1650 3-D DESIGN WITH REVIT ARCH I

Course Information:

Course Title: CAD 1650 3-D DESIGN WITH REVIT ARCH I

Credits: 3 Credits

Class Hours: 2 Class Hours, 2 Lab Hours

Course Description:

A “hands-on” class that explores the fields of designing and presenting ideas with Revit software, a Building Information Management (BIM) system. Topics include the concepts and principles of 3-D parametric software in designing architectural projects. Use of the 3-D design process in creating and revising architectural designs is emphasized. The class teaches functionality and creativity starting with simple parametric skills and expanding to complicated designs, using key features of the software.

Prerequisite(s): CAD 1200, experience in the Architectural field, or instructor approval

Instructor Information:

Name:

Email:

Office Phone:

Office Location:

Office Hours:

Required Textbook(s) & Other Materials:

Textbook(s):

ISBN:

Reference Materials:

Supplies: USB Removable Storage Device (Flash Drive) 4 Gig Minimum size

Once enrolled, all students should verify that they have the correct textbook and materials information by consulting the D2L/NS Online shell for the course. If you are registered with the Access Center and require an alternate format for the textbook and other course materials, please contact the Access Center at 615-353-3721, 615-353-3741, or accesscenter@nsc.edu.

Course Outcomes:

Upon successful completion of this course, students should be able to:

1. Be familiar with AutoDesk REVIT products (Architecture, Structure, and Systems) that make up REVIT Architecture.
2. Understand REVIT and its use as a BIM (building information modeling) platform.
3. Have a working knowledge of the REVIT interface, project templates, drawing tools, families, components, and their modification.
4. Be familiar with presentation to architectural standards (plan view, section, elevation, callouts, schedules, and 3D views).
5. Create and modify Revit based projects to an intermediate level.
6. Be able to use REVIT to convert a set of project drawings originally created in AutoCAD.

Course Competencies:

The following are detailed course competencies intended to support the course outcomes:

1. A basic level of computer literacy of the Windows environment is expected. The student should know how to open files, save files and follow a path to a file either on a hard disk or on a removable storage device.

The following are general education competencies intended to support the course outcomes:

Topics to Be Covered:

1. Introduction to BIM, and REVIT Architecture
2. Project setup REVIT Interface Options Bar, Project Browser, Properties Palette, QAT, Ribbon, Tabs, Tool bars, Window Tile, Zoom
3. Design and Editing Architectural Plans using Revit Including Foundations, Walls, Roof and other Architectural elements,
4. Sheet Layout and Printing

Course Assessments:

The following performance assessments will be used to demonstrate students' understanding, knowledge, and skills:

1. Students will be assessed on their ability to perform "hands on" creation of design exercises evaluated on accuracy, clarity, and techniques learned in this program.
2. Students will be assessed on their retention of learned materials through written or "hands on" designs for testing.

Grading Policy:

If you cannot take a test when scheduled, you must notify the instructor and make arrangements to take the test prior to the scheduled date. Homework not turned in on time is subject to a 25% grade reduction. Homework will not be accepted if more than one week late or after an assignment has been returned to the class, whichever comes sooner. Homework should reflect your understanding of the subject, not that of your classmates. There will be no makeup on missed labs. Make every effort to attend every lab.

Grading Scale:

Weekly Assignments	50%
Mid-term Exam	20%
Final Project	20%
Attendance	<u>10%</u>
Total	100%

Late Work Policy & Make-up Procedures for Missed Assignments and Work:

(Each instructor will provide policy)

Attendance Policy

Students are expected to attend all scheduled classes and laboratories. Absences in a course may affect a student's final grade. The student is responsible for all assigned work in the course regardless of excused or unexcused absences. Tardiness may also affect a student's final grade.

In online courses, attendance is signaled by logging on to the D2L/NS Online shell, participating as prompted (e.g., responding to an instructor's email, posting to a discussion board) and/or completing and submitting assignments. Campus closures do not affect attendance and assignment completion in online courses.

(Each instructor will provide policy, especially how attendance influences student assessment and grading.)

Grading Scale:

Letter Grade	Percentage Range
A	90-100%
B	80-89%
C	70-79%
D	60-69%
F	59% or Less

FA

According to NSCC policy, an FA is awarded to students who do not officially withdraw from a course and do not attend after the cut-off date provided in the academic calendar. Please refer to the current academic calendar available on the Nashville State web site, looking for the date that indicates it is the

“Last Day to Earn F for Attendance (FA).” Students who stop attending on or before this date receive an FA; students who stop attending after this date receive an F.

For online courses, attendance is defined by submission of assignments. Students who fail a course and whose last assignment is submitted on or before the FA date will earn an FA for the course. Students who fail a course and whose last assignment is submitted after the FA date will earn an F for the course. An FN is assigned to students who do not submit any assignments.

(While the above information should appear in all syllabi, faculty are encouraged to make additional statements that would clarify the policy for students and provide the applicable FA date for their section.)

FN

An FN is awarded to students who never attended class.

Technology Statement

Nashville State's classes are considered to be web-enhanced. Faculty have an expectation that students will use a computer and the Internet to complete assignments, engage in online discussions, and access various course materials through D2L/NS Online course shells. Computers are available for student use at each campus during campus open hours.

D2L/NS Online and myNSCC

It is students' responsibility to check D2L/NS Online course shells for all enrolled courses and myNSCC, including student email, on a regular basis. These are the official communication channels between the college and students, who are responsible for the information communicated through those channels. D2L/NS Online contains specific course information and myNSCC contains information important for other purposes.

ADA Compliance Statement

Nashville State complies with the Americans with Disabilities Act (ADA). If you require accommodations for any courses in which you are enrolled, contact the Access Center at 615.353.3741 or 615.353.3721, or e-mail accesscenter@nsc.edu. If you are registered with the Access Center and require an alternate format for the textbook and other course materials, please contact the Access Center.

Classroom Misconduct

Nashville State Community College has a zero-tolerance policy for disruptive conduct in the classroom. Students whose behavior disrupts the classroom will be subject to disciplinary measures. Please review the [Nashville State Student Code of Conduct policy](#). Please be aware that children are not allowed in class or to be left unattended on campus.

Academic Misconduct

Any form of academic dishonesty, cheating, plagiarizing, or other academic misconduct is prohibited. Students are responsible for understanding and abiding by the [Academic Misconduct Policy](#) in the Nashville State Student Code of Conduct. In addition to other possible disciplinary measures that may be applied through regular college procedures as a result of academic dishonesty, the instructor has the

authority to assign an “F” or a “zero” for the exercise, paper, or examination, or to assign an “F” for the course. Students may appeal through the appropriate college grade appeal procedures.

(Each instructor will outline his/her expectations for academic integrity and provide individualized information about consequences for academic misconduct.)

Academic Early Alert System

Nashville State Community College uses an Early Alert System to let students know of a faculty member’s concern in one or more of these academic areas: lack of attendance, lack of classroom participation, late or missing assignments, and/or poor performance on assignments/tests. *Please note that Early Alerts do not affect a student’s academic standing. If you receive an Early Alert email, please see your instructor and your academic advisor as soon as possible.

RAVE Emergency Alert System

Emergency events can happen at any time and Nashville State Community College wants to be able to notify students if and when they occur. For this reason, all students have been enrolled in the free RAVE alert system. If you have not already done so, please log in at <https://www.getrave.com/login/nsc> to confirm and update your contact information and notification preferences. It is critical that your information be correct so that you will receive any emergency notifications. Your RAVE Username is your NSCC email address. If you've never received an email from RAVE with your password, or if you need to reset your password, select “Forgot your password?” and a new password will be emailed to you. Should the RAVE system indicate “user not found”, select Register and create your own RAVE account.

Inclement Weather & Campus Closings

Nashville State will use the RAVE alert system to send a text message to students, staff, and faculty about adjusted hours of operation and/or closings at individual campuses. All students should check the Nashville State web site home page at www.nsc.edu for announcements on campus closures, which may vary from campus to campus. Campus closures will also be announced on local television stations. Students should use their own best judgment in determining whether to report to campus during inclement weather when classes are not cancelled.

Even when campuses are closed, students are still responsible for completing all assigned work. When classes are cancelled, faculty will post online assignments and any additional instructions in the D2L/NS Online course shell. Check D2L/NS Online for a message from your instructor regarding your online assignment requirements. Faculty have discretion over adjusting deadlines or due date for assignments, but students are responsible for completing all assigned work by the due date established by the instructor.

Class Cancellation Policy

If the class is cancelled, the instructor will notify all students by posting in the D2L/NS Online course, e-mailing through D2L/NS Online, and/or by posting a sign on the classroom door. In the event of class cancellation, students must access D2L/NS Online to complete classwork and the assignment that will be posted in the course D2L site.