

ROUGH DRAFT



ARCHITECTURAL BUILDING TECHNOLOGY 2

ARCH 314

DICK STAFFORD

SPRING 2026

COURSE SYLLABUS

Instructor: Dick Stafford dstafford@crs-arch.com cell# 317-506-7763
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Office Hours *by Appointment*:

Mon/ Wed: 800 to 900am or per student request

Schedule / Location: **Section 4 - Lecture: Mon/Wed 900-1015am AB #004**
Section 1 - Lecture: Mon/Wed 1030am-1145pm AB #004

Graduate Assistant: Abraham Ochoa Abraham.ochoa@bsu.edu

Course Credit: Arch 314 is a 3.0 credit hour course

Catalog Description:

Methods and materials of architectural construction. Emphasizes interface of material selections and construction technology in the design, production, and construction process. Production of construction documentation. Prerequisite: ARCH 214.

Course Goals & Objectives: Building Technology 2 builds upon Building Technology 1 and introduces students to the materials and methods of construction. The goal is to gain an *understanding* of the nature of materials used in construction, an *awareness* of material production, the *process* of building assembly, and the *effect* on the environment and people. This course focuses on the craft of construction documents as a continuation of the design process and a primary means of communicating design intent in architecture. An emphasis is placed on the relationship between the craft of construction and the art of design.

- Expand understanding of building materials and related construction methods.
- Increase appreciation for the design potential in material and building assemblies.
- Reinforce and apply principles of sustainability in design and construction.
- Introduce information resources, and examples pertaining to the technical aspects of architecture and construction.
- Investigate the organizational skills necessary to plan, execute and administer a set of Construction Documents (C.D.'s), including office procedures/administration, working drawings, and specifications.
- Develop and demonstrate basic graphic skills required to execute a competent set of Working Drawings. Continue to develop basic Revit software skills. **Download 'student version' free from Autodesk.**

NAAB Criteria:

SC.4 Technical Knowledge: How the program ensures that students understand the established and emerging systems, technologies, and assemblies of building construction, and the methods and criteria Architects use to assess those technologies against the design, economics, and performance objectives of projects.

Course Format: This course utilizes presentations, classroom exercises, feedback sessions, readings, guest speakers, field trips, assignments and exams. The course will cover a range of topics and content that support the working drawing assignment. Class workshops will cover specific aspects of the assignment and cover the conventions of architectural working drawings. Students are required to do related building research, conduct creative experiments in the art and craft of building, and engage in collaborative discussion with your colleagues throughout the semester.

Work & Participation: Students are encouraged to actively participate in discussions, reviews and critiques, do the course readings, and do the necessary amount of work outside of class hours to complete the coursework. **Attendance is mandatory and will be monitored each class period.** Absences from class will only be excused if you provide the *Graduate Assistant* with written documentation of a legitimate excuse. It is your responsibility to keep up with course work and assignment requirements which may change during the semester. Day-to-day changes may be made in class and/or be posted on Canvas. Particularly with respect to the Working Drawing Assignment printing, be aware that everyone will be trying to print immediately before the assignment is due. Therefore, plan to print out your assignments prior to their due date. **Technical difficulties do not excuse late work.** Unexcused work turned in late will be marked down at the discretion of Instructor. Work must be printed out for workshop reviews; working drawings (in progress) will not be reviewed on your laptops/devices.

Rules of Conduct:

Working on coursework unrelated to Arch 314 during class is not permitted. Using any device (phone, tablet, laptop, etc.) for any purpose other than course-related work is **STRONGLY DISCOURAGED** because of potential disruption to *ME and Other Students*.

Academic Integrity:

Students must comply with, and are responsible for knowing, the student academics ethics policy as published in the Ball State University student handbook. Do your own work. Cheating on Exams, plagiarism, copying work, etc. is not acceptable on this planet Earth.

Evaluation: You will be evaluated/graded for your work on projects and exams. There are three (3) exams, and a Working Drawing Project worth a Total of 150 points weighted per the table below. Process/Progress submittals for review of your Working Drawings Assignment will be graded respectively and count toward your final grade. Specific evaluation criteria for the WD project will be included in the working drawing project description to be issued separately.

Working Drawings Project	50.00%	75 points
Exam #1	13.33%	20 points
Exam #2	16.67%	25 points
Final Exam	20.00%	30 points
TOTAL	100%	150 points

Grading Scale: (See Scale Below): Note that Attendance Record will be considered by Instructor when evaluating all “borderline” grades. Students with more than five (5) unexcused absences may be downgraded at the discretion of the instructor.

Grade	Percentage Range
A	93% and 100%
A-	90% and less than 93%
B+	87% and less than 90%
B	83% and less than 87%
B-	80% and less than 83%
C+	77% and less than 80%
C	73% and less than 77%
C-	70% and less than 73%
D+	67% and less than 70%
D	63% and less than 67%
D-	60% and less than 63%
F	0% and less than 60%

Disability Services Statement:

If you need course adaptations or accommodations because of a disability, please contact me as soon as possible. Ball State's Disability Services office coordinates services for students with disabilities; documentation of a disability needs to be on file in that office before any accommodations can be provided. Disability Services can be contacted at 765-285-5293 or dsd@bsu.edu.

Diversity Statement:

Ball State University aspires to be a university that attracts and retains a diverse faculty, staff, and student body. We are committed to ensuring that all members of the community are welcome, through valuing the various experiences and worldviews represented at Ball State and among those we serve. We promote a culture of respect and civil discourse as expressed in our Beneficence Pledge and through university resources found at <http://cms.bsu.edu/campuslife/multiculturalcenter>.

Learning Center:

The Learning Center offers free tutoring for many courses at Ball State in the science and humanities area, a variety of math and business courses, any writing task, some foreign language courses, and study skills such as organization, time management, test taking, and notetaking. For more information about all of the available programming, visit bsu.edu/learning_center or call 765 285-1006.

Readings: Required textbooks for this course are:

Building Construction Illustrated, 6th ed., by Francis D. K. Ching (5th ed. permissible)

Fundamentals of Building Construction, 6th ed., by Edward Allen & Joseph Iano (5th ed. permissible)

The Professional Practice of Architectural Working Drawings, 5th ed., by Osamu Wakita & Richard Linde.

Single hard copy of each has been placed on reserve in Architecture Library plus each is available as e-book on Reading List Link in Canvas.

Note: *Syllabus is subject to change at Instructor's Discretion.*
