



# Course Syllabus

## BCN1230 MATERIALS AND METHODS

BCN1230 83441 FALL 2026

Credit Hours/Contact Hours 3 CR – 3 LECTURE

Prerequisite: NONE.

### Contact Information

#### Instructor

Dr Ronald Dowgul PhD, P.E.  
RDowgul@gmail.com  
Phone Number -

Office Location -  
Office Hours (As posted)  
Response Time Monday 8am through  
Friday 12pm

#### Division Chair

mweiman@gulfcoast.edu

Professor / Chair  
Mboyd@gulfcoast.edu 850 872-3839 ext.  
3839 Division Administrative

Assistant

### Course Information

#### Catalog Description:

A study of materials and methods used in commercial or private dwelling construction. Includes the use of wood, steel, and concrete in all phases of construction and a study of the fabrication of component units and their assembly at the construction site.

#### Student Learning Outcomes:

Upon completion of this course, the students will be able to:

1. Explain the planning processes required at the initiation of a construction project, including project programming, site analysis, scheduling, budgeting, and stakeholder coordination.

2. Evaluate applicable building codes, standards, regulations, and other design constraints to determine their impact on the planning and design of construction projects.
3. Describe the roles, responsibilities, and interactions of architects, engineers, contractors, owners, and other design and construction professionals throughout the project delivery process.
4. Identify common construction materials and explain their properties, applications, and methods of integration into building systems and structural assemblies.

## Course Materials & Resources:

### TEXT:

**Fundamentals of Building Construction  
Materials & Methods**  
**By Edward Allen Joseph Iano**  
**Fifth Edition, John Wiley & Sons, Inc.**

## Delivery Method:

This course meets face to face. Course material, assignments, and announcements may be offered via Canvas as a supplemental approach to learning at the discretion of the instructor. Please make sure that you have access to a computer with a webcam and internet service, in the event a change in course delivery is needed.

## Student Expectations

In this course, communication and feedback will occur through various channels, including GCSC email, Canvas Inbox, Canvas Announcements, Canvas Discussions, Microsoft Teams or Zoom, assignment feedback, and instructor office hours. Review the statements below so that you understand the expectations for communication.

As a student at Gulf Coast State College, you are expected to:

- **Adhere to Course Guidelines:** Follow the guidelines detailed in the course syllabus, along with any additional instructions provided by the instructor. This includes understanding and complying with the course objectives, grading criteria, and academic policies.
- **Maintain Regular Contact:** Keep in touch with your instructor and classmates via your GCSC email or other designated communication channels. Regular contact helps clarify doubts, share ideas, and foster a collaborative learning environment.
- **Active Participation:** Engage actively in class discussions and submit assignments on time. Your active participation is crucial for your academic success and contributes to a vibrant learning community.

As your instructor, my commitment to you is to:

- **Provide Timely Feedback:** I will review and provide feedback on your assignments and submissions promptly. My goal is to help you understand your strengths and areas for improvement, which is crucial for your academic growth.
- **Respond Via Canvas Inbox:** I will respond to your emails or messages within 24-48 hours (excluding weekends), unless otherwise noted. I understand the importance of clear and timely communication in addressing your questions and concerns.
- **Post Regular Announcements:** To keep you updated and help you manage your time effectively, I will send out weekly reminders via announcements. These reminders will include important dates, upcoming assignments, and any changes to the course schedule.
- **Maintain Weekly Office Hours:** I will maintain regular weekly office hours, but I can also be available by appointment. This is to ensure I'm available for any questions or concerns that may come up during the week.

## Course Schedule

Weekly SCHEDULE:

DATE	MATERIAL COVERED	ASSIGNMENT
Week #1	Making Buildings	Chapter 1
Week #2	Foundations & Wood	Chapters 2, 3
Week #3	Heavy Timber, Light Wood	Chapters 4, 5
Week #4	Exterior/Interior Finishes	Chapters 6, 7, 8
Week #5	Exam I	
Week #6	Concrete Masonry, Walls	Chapters 9, 10
Week #7	Steel, Light Gauge Steel	Chapters 11, 12
Week #8	Mid-term	
Week #9	Concrete	Chapters 13, 14
Week #10	Pre-Cast Concrete, Roofing	Chapters 15, 16
Week #11	Glass, Windows/Doors	Chapters 17, 18, 19
Week #12	Exam III	
Week #13	Cladding, Interior Finishes	Chapters 20, 21, 22
Week #14	Walls/Partitions, Ceiling/Floors	Chapters 23, 24
Week #15	Final	

## Grading

### GCSC Grading Scale

These outcomes are directly measurable through:

- Homework and class participation 20%,
- two exams plus 40%
- mid-term and the final 40% .

### Calculation of Grades

A = 90 – 100%

B = 80 – 89%

C = 70 – 79%

D = 60 – 69%

F = 0 – 59%

#### **Grade A – Exceptional Achievement**

Demonstrates an exceptional understanding of construction materials, building systems, methods, and industry practices. Assignments, examinations, and laboratory work are accurate, complete, and consistently exceed course expectations. Work reflects outstanding analytical ability, critical thinking, technical accuracy, and attention to detail.

#### **Grade B – Above Expectations**

Demonstrates a strong understanding of course concepts and exceeds the minimum course requirements. Assignments and examinations are accurate, well organized, and show a high level of technical competence. Minor errors may be present but do not significantly affect the quality of the work.

#### **Grade C – Satisfactory Achievement**

Demonstrates an adequate understanding of the fundamental principles of construction materials, methods, and building systems. Assignments and examinations meet the minimum course requirements and accurately address the learning objectives. Some errors or omissions may be present but do not substantially affect overall performance.

#### **Grade D – Marginal Achievement**

Demonstrates limited understanding of course material. Assignments and examinations contain significant errors, omissions, or misconceptions that indicate only partial achievement of the learning outcomes. Performance is below the expected level for successful completion of the course.

#### **Grade F – Unsatisfactory Achievement**

Demonstrates little or no understanding of the course material. Assignments and examinations are not submitted, are substantially incomplete, or fail to meet the minimum requirements. The work does not demonstrate achievement of the course learning outcomes.

### Incomplete Grades

Grades of Incomplete in any course can only be assigned to students who have an emergency arise during the last two weeks of the course. To receive an Incomplete, students must:

- Submit a written request to the instructor prior to the last face-to-face class meeting. For online courses, a written Incomplete request must be received no later than the week before the Final Exam period begins.
- Have completed no less than 60 percent of the course requirements and be passing the course at the time the request for an Incomplete is submitted.

**Important Note:** The Incomplete option provides 30 days from the date grades are due to make up any missing work; if work is not submitted during this period, the grade will automatically change to an “F” in Lighthouse.

## Course Policies

### Accessibility Statement

Gulf Coast State College supports an inclusive learning environment for all students. If there are aspects of the instruction or design of this course that hinder your full participation, reasonable accommodations can be arranged. Prior to receiving accommodations, you must register with Student Accessibility Resources. Appropriate academic accommodations will be determined based on the documented needs of the student. Please visit [GCSC's Student Accessibility Resource \(SAR\) webpage](#) to learn more. For information regarding the registration process, email [sar@gulfcoast.edu](mailto:sar@gulfcoast.edu) or call 850-747-3243.

### Attendance Policy

Regular class attendance and participation are significant factors that help to promote success in college. Students are expected to attend all class meetings of all courses for which they are registered.

You are expected to know the instructor's specific attendance policy, as stated in the syllabus for each course. In the event of absence, you should contact your instructor as soon as possible to indicate the reason and to inquire whether make-up work is possible. (Make-up work is offered solely at the discretion of your professor.)

If your absences in a class become excessive, as stated in the course syllabus, your professor may contact you, indicating that further absence may result in your withdrawal from the course. Your professor can withdraw you from a course for excessive absences without your permission.

Instructors will monitor attendance at the beginning of each semester. If you are not in attendance during this period, you may be withdrawn from the course. You will be financially responsible for the course and a "W or NS" will appear on your transcript. Withdrawal from a course may also have implications for financial aid.

#### Make-Up Work Policy

Student can reschedule a test by email.

### Withdrawal Policy

Two withdrawals are permitted per credit course. After that, a grade will be assigned. Please be concerned about withdrawals. When admitting students into certain programs, universities may calculate withdrawals as grades. It is your responsibility to verify the effects of enrollment and/or withdrawal upon your financial assistance (financial aid, scholarships, grants, etc.). There are two kinds of withdrawals---student and administrative.

- *Student Withdrawal (W1)* - Students wishing to withdraw must complete the online Student Withdrawal Form before the scheduled withdrawal deadline as published in the College catalog. Student withdrawals initiated prior to the scheduled withdrawal deadline will be recorded as a grade of "W." The withdrawal deadline for an off-term or condensed term is one week after midterm.

- *Administrative Withdrawal (W2)* – A faculty member may withdraw a student up to the published withdrawal deadline for violation of the class attendance policy in which case the student will receive a grade of “W.” The withdrawal deadline for an off-term or condensed term is one week after midterm.

Students cannot withdraw from developmental studies courses (college-preparatory classes) after the drop/add period without written permission from their instructor and/or their academic advisor.

## Academic Integrity

Honest participation in academic endeavors fosters an environment in which optimal learning can take place and is consistent with the college’s mission. Academic misconduct, including cheating or plagiarism, is destructive to the spirit of an educational environment. GCSC professors report every instance of student academic misconduct to the college for inclusion on the student’s records. Most course syllabi include an academic honesty policy and the consequences for violating this policy. Familiarize yourself with course policies regarding authorized or unauthorized use of AI to avoid the pitfalls of academic dishonesty.

The following definitions will apply:

### "Cheating"

includes but is not limited to use of any unauthorized assistance in taking quizzes, tests, or examinations; dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; the acquisition without permission of tests or other academic materials belonging to a member of the College's faculty.

### "Plagiarism"

includes, but is not limited to, the use by paraphrase or direct quotation of the published or unpublished work of another person without full and clear acknowledgment as well as the purchase of papers or projects. It can also include overuse of an editing program like Grammarly or submitting work written by an Artificial Intelligence (AI) generator like ChatGPT. Make certain to consult your course syllabi for your instructor's guidelines of AI material.

### "Self-plagiarism"

occurs when a student submits the same or considerably similar document to fulfill requirements in different classes. For example, if a student submits a term paper in Religion they originally wrote for an English class, this is self-plagiarism. Once a paper receives a grade in one class, it cannot be submitted again for another class.

### "Generative Artificial Intelligence (AI)"

is technology that uses machine learning to create new content, such as text, images or code, based on user input. These systems are trained on vast amounts of data, including large language models and image or code generators. Common examples include ChatGPT, GitHub, Copilot, Google Gemini, Perplexity, and the Grammarly AI function.

Sanctions for incidences of academic misconduct, depending on the severity of the incidence and/or its repetition, may range from receiving an F grade (or 0) for the test, assignment, or activity, to failure of the course, to suspension or dismissal from the college.

## Classroom Recording

In accordance with federal and state privacy laws, students may record class lectures for their own personal educational use, in connection with a complaint to the college, or as evidence in internal or external legal proceedings. Students may not publish or upload the recordings or any components thereof without the knowledge and written permission of the faculty member. Failure to obtain permission to publish could lead to the students' having to pay damages, attorney fees, and court costs. For more information about what can be recorded, please see the guidelines in the GCSC Student Handbook.

This course is recorded every week on BIG BLUE BUTTON Conferences, the student must download the recording within 2 weeks from the date.

## Generative Artificial Intelligence (AI) Policy

The use of generative AI tools in academic work requires clear guidelines to maintain academic integrity. Please review the policy selected for this course regarding the use of AI tools such as ChatGPT, Copilot, Grammarly's AI features, and similar platforms for assignments, research, and other coursework.

See the student handbook for further information. Students with questions about acceptable use should consult their instructor.

Prohibited Use of AI

*The use of AI-generated content is strictly prohibited in all assignments, coursework, and throughout all stages of the work process, such as brainstorming, outlining, or drafting. This includes but is not limited to, tools such as ChatGPT, Copilot, and Grammarly's AI function. Use of AI tools will be treated as a violation of academic integrity and may result in penalties, including a zero on the assignment and additional disciplinary actions as outlined in the college's academic integrity policy.*

## Anti-Discrimination Policy

Gulf Coast State College does not discriminate against any person in its programs, activities, policies or procedures on the basis of race, ethnicity, color, national origin, marital status, religion, age, gender, sex, pregnancy, sexual orientation, gender identity, genetic information, disability, or veteran status. All questions or inquiries regarding compliance with laws relating to non-discrimination and all complaints regarding sexual misconduct or discrimination may be directed to Amanda Reed, Executive Director of Human Resources/Title II/504/Title IX Coordinator and Employment Equity Officer, Gulf Coast State College, 5230 W. US Highway 98, Panama City, FL 32401; 850-769-1551, ext. 3516. Rules, policies, fees, and courses described in this catalog are subject to change without notice.

## Syllabus Policy

For any syllabus posted prior to the beginning of the term, the instructor reserves the right to make minor changes prior to or during the term. The instructor will notify students via e-mail or Canvas announcement when changes are made in the requirements and/or grading of the course.

## Student Support Resources

Gulf Coast State College is committed to providing you with the resources you need for success as a student and beyond. View all the academic and student support resources provided at GCSC on the [Student Services web page](#).

## Course Technology & Support

To successfully participate in this online course, students must have basic computer and digital information literacy skills and meet the following technology requirements:

- **Computer:** Up-to-date web browser that supports the Canvas learning management system; please refer to the system requirements for compatibility and information on using the Canvas app on mobile devices.
- **Internet Speed:** Minimum bandwidth of 8 Mbps upload/download speed to effectively engage in online activities and access multimedia.
- **Office 365 software:** Available for free download through GCSC Information Technology Services (ITS).

If you need technical support, contact the ITS Help Desk, available 24/7 at (850) 913-3303.