CM 3190 Sustainable Construction
College of Architecture & Construction Management Term:

Prerequisite: CM 3180

Class Meeting time: M W 6:30 PM to 7:50PM

Course Website: www.USGBC.org

Class Location: H-320

Class instruction methodology: 3 Credit Hours / Lecture / Lab / Projects / On-Line Instruction

Instructor: Professor John Jambro

Office Location & Hours: - Building Construction Management Department

M W 5:30PM to 6:30PM or by Appointment

Course Communications:
Preferred method of contact: E-Mail jjambro@kennesaw.edu Telephone: 770-286-0659


COURSE SYLLABUS
Construction Management Faculty are involved in the development of knowledge, understanding, and application in an environment where we monitor, manage, and facilitate the learning process. Instructor strives to provide a rich learning environment that allows for a range of individual learning styles. The following syllabus provides specific topics for the course through various forms of teaching and discovery based on a selection of reading materials and other resources.

Course Catalog Description:
This course will emphasize the techniques and methods of sustainable construction/development. Importance of a collaborative team effort from owner, developers, architects, engineers, constructors, and consultants will be integrated into the course. Influences on the cost and schedule due to a sustainable construction/development project will be analyzed. Topics will include performance certification techniques for sustainable sites, water efficiency, energy & atmosphere, materials & resources, indoor environmental quality, innovation and design. MEP systems such as ventilation, air conditioning, heating, electrical lighting and building control systems will be covered from a sustainable perspective.

Student Learning Outcomes:
1. Identify the LEED Building Ratings of Certified, Silver, Gold, & Platinum
2. list why MEP building systems are very important for performance certification
3. list how construction management is influenced by the LEED process
4. Identify Owners Project Requirements through the Basis of Design
5. Identify Programming criterion for a LEED Certified building or similar sustainable
COURSE POLICIES

Attendance Policy: Reference attendance policy in Grading Criterion above in the syllabus. Class participation is a must to pass this course. Communicate directly with the instructor if there is an issue with missed classes, it is the students responsibility to seek out the Instructor to catch up on any missed class work, discussions, projects, or case studies.

Class preparation/participation: Required for passing this class. There will be instructor provided case studies and projects requiring class / student / group / and individual participation. These assignments roll up to your grade calculation so preparation efforts ahead of class and during the lab sessions are required to yield a good grading evaluation outcome.

Quiz / Exam Policy: Pop Quizes may be scheduled at the discretion of the Instructor. There is a Mid-Term and Final Examination. Make up examinations will only occur if the student communicates to the Instructor of a conflict or occurrence within two weeks prior to the examination.
Assignment Policy: Attendance is mandatory in order to participate fully and receive credit for course work. Failure to attend class may result in missed course content found on case studies and projects that will cause a student’s grades to be impacted due to not appearing in class when content is discussed. There are excusable absences and the student shall brief the Instructor well in advance such that preparations can be made for the student to receive any handouts or notes that were covered in the excused class session.

Examinations 30%,
Course Project / Labs 25%,
Homework / Case Studies / Electronic Assignments 35%,
Class participation 10%
Total 100%

All handed in Case Studies, Labs, Course Projects, etc. must be typed 12 font with a cover page, stapled with students name at the top of the paper. All assignments must contain references from where the student obtained the information. Failure to provide references may result in a complete failing grade of the assignment.

Course Technology: This course requires access to a computer. The Construction Management Department has 105 computer stations available for student use. At a minimum, students should be able to use a word processing application, a spreadsheet application and a presentation application (i.e., Microsoft Word, Excel and PowerPoint).

Evaluation & Grading: Also Reference Assignment Policy

A = 90-100  B = 80-89  C = 70-79  D = 60-69  F = Below 60

UNIVERSITY POLICIES:
Statement of Student Rights and Responsibilities
KSU Student Code of Conduct

Plagiarism and Cheating:
No student shall receive, attempt to receive, knowingly give or attempt to give unauthorized assistance in the preparation of any work required to be submitted for credit (including examinations, laboratory reports, essays, themes, term papers, etc.). Unless specifically authorized, the presence and/or use of electronic devices during an examination, quiz, or other class assignment is considered cheating. Engaging in any behavior which a professor prohibits as academic misconduct in the syllabus or in class discussion is cheating. When direct quotations are used, they should be indicated, and when the ideas, theories, data, figures, graphs, programs, electronic based information or illustrations of someone other than the student are incorporated into a paper or used in a project, they should be duly acknowledged. No student may submit the same, or substantially the same, paper or other assignment for credit in more than one class without the prior permission of the current professor(s).

University Policy on Academic Misconduct: Academic honesty and integrity are fundamental values of the University community. Students should be sure that they understand the KSU Student Academic Integrity Policy at ercity Policy on Accommodating Students with Disabilities:

Students requesting accommodation for disabilities must first register with the Office of Disabled Student Support Services at http://www.kennesaw.edu/stu_dev/dsss/dsss.html. The Office of Disabled Student
Support Services will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation. You must submit this documentation prior to submitting assignments or taking the quizzes or exams. Accommodations are not retroactive, therefore, students should contact the office as soon as possible in the term for which they are seeking accommodations.

**Netiquette: Communication Courtesy:** All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats. 
http://teach.ufl.edu/docs/NetiquetteGuideforOnlineCourses.pdf

**Electronic Recording & Social Media Policy**

Electronic recording performed without the consent of the people being recorded chills the free exchange of ideas. Academic freedom, free inquiry, and freedom of expression should not be limited by the fear that one’s brainstorming, polemic discourse, speculative inquiry, or any other kind of expressed curiosity made within the space of a university classroom will be made public without one’s consent. This fear is unacceptable regardless of whether one is in an online, hybrid, or face-to-face classroom setting. Accordingly, no person shall electronically record any class discussion without the written permission of the instructor. No person shall publish online or elsewhere any electronic recording of a class discussion without the written permission of the instructor and any other persons who were recorded. This policy is not intended to discourage electronic recording in the classroom or the use of social media when such actions are performed with the written consent of the instructor and any other persons who were/will be recorded. Faculty accommodate all reasonable requests to electronically record a class discussion; these requests must be documented by the DisAbled Student Support Services available at: http://www.kennesaw.edu/stu_dev/dss/prospect.shtml

**GETTING HELP**

For issues with technical difficulties, please contact the Student Helpdesk:

1. Fill out a service form http://uits.kennesaw.edu/support/formselect.php?s=tech
2. Email: studenthelpdesk@kennesaw.edu
3. Call: 770-499-3555

Getting Started With Technology Services  http://uits.kennesaw.edu/

Any requests for make-ups due to technical issues MUST be accompanied by the ticket number received from ITS when the problem was reported to them. The ticket number will document the time and date of the problem. You MUST e-mail your instructor within 24 hours of the technical difficulty if you wish to request a make-up.

**Additional Technology Resources**

1. Student Service Desk and Help Center  studenthelpdesk@kennesaw.edu
3. USG Desire2Learn Help Center  https://d2lhelp.view.usg.edu/
4. D2L Training Options & Resources for Students  https://web.kennesaw.edu/acs/pages/desire2learn/student-resources-d2l
5. Computertrain Online Courses  http://www.kennesaw.edu/dlc/FacultyResources/
6. ITS Documentation Center  http://uits.kennesaw.edu/docs/netaccess/guides/windows7_wifi_instructions.pdf
7. Check Service Outages  http://status.usg.edu/
8. Maintenance Schedule  https://usg.desire2learn.com

**Academic Resources**

1. Academic Tutoring Services http://www.kennesaw.edu/stu_dev/alp/academic.shtml
KSU desires to resolve student grievances, complaints and concerns in an expeditious, fair and amicable manner. The Complaints and Appeals Page was developed to assist current and prospective students in submitting complaints and appeals and to direct them to the most effective venue for accurate information and resolution. The resources on the page will direct students to the specific venue to appropriately address related student complaint.

Complaints for online students are resolved following the same general procedures for students who attend classes on campus. However, for any process that requires that a student appear in person, the university may make other arrangements. For processes that cannot be completed via telephone, e-mail, or written correspondence, the university may set up a two way Video conference site in place of a meeting on the KSU campus.

### Course Schedule:

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic(s)</th>
<th>Assignments/Due</th>
<th>Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8/17</td>
<td><strong>Intro to Sustainable Construction</strong></td>
<td>Review USGBC Website</td>
<td></td>
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<tr>
<td>2</td>
<td>8/21</td>
<td>Planning Sustainability / LEED Score Card</td>
<td>Review USGBC Website</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>8/31</td>
<td>Green Building Basics</td>
<td>Johnson Diversey Case Study</td>
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<tr>
<td>4</td>
<td>9/7</td>
<td>No Class Holiday</td>
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<tr>
<td>5</td>
<td>9/14</td>
<td><strong>Sustainable Sites</strong></td>
<td>Course Project Handed Out</td>
<td></td>
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<tr>
<td>6</td>
<td>9/21</td>
<td>Feasibility Studies for LEED / Green Building</td>
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<tr>
<td>7</td>
<td>9/28</td>
<td>MID Term Review</td>
<td>Mid Term Examination</td>
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<tr>
<td>8</td>
<td>10/5</td>
<td>Building Environmental Quality HVAC</td>
<td>Question Answer Case Study</td>
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<tr>
<td>9</td>
<td>10/12</td>
<td><strong>Water Efficiency</strong></td>
<td>Water Efficiency Lab for Building J and H</td>
<td>Course Project Executive Summary Due</td>
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<tr>
<td>Week</td>
<td>Date</td>
<td>Topic(s)</td>
<td>Assignments/Due</td>
<td>Project</td>
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<tr>
<td>10</td>
<td>10/19</td>
<td>Electrical Lighting / Day lighting Cases</td>
<td>Retrofit Building J and H with LED fixtures Lab</td>
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<tr>
<td>11</td>
<td>10/26</td>
<td>Energy and Atmosphere</td>
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<td>12</td>
<td>11/2</td>
<td>LEED Litigation</td>
<td>Provide (2) page write up on LEED specific litigation</td>
<td>Course Project Check Point</td>
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<tr>
<td>13</td>
<td>11/9</td>
<td>Making existing buildings sustainable</td>
<td></td>
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<tr>
<td>14</td>
<td>11/16</td>
<td>Course / Lab Work for Final Project</td>
<td>Inventory of an existing Building to LEED</td>
<td></td>
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<tr>
<td>15</td>
<td>11/23</td>
<td>Fall Break No Class This Week</td>
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<tr>
<td>1416</td>
<td>11/30</td>
<td>Project Presentations / Final Project</td>
<td></td>
<td>Course Final Project Due</td>
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<tr>
<td>17</td>
<td>12/7</td>
<td>Final Examination</td>
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**Course Outline:** *Subject to change with notice.* This outline represents the general format of the course. Instructor reserves the right to make changes depending on the progress of the class to better suit the needs of the students.