A. **Prerequisites**  
Fundamental knowledge for MS Operating System, Microsoft Office, and Adobe Acrobat software.

B. **Meeting Time & Location**  

<table>
<thead>
<tr>
<th>Course</th>
<th>Day(s)</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMGT 110-3,4</td>
<td>Tue/Thu</td>
<td>11:00AM – 12:50PM</td>
<td>O'Connell 127</td>
</tr>
<tr>
<td>CMGT 110-5,6</td>
<td>Mon/Wed</td>
<td>11:00AM – 12:50PM</td>
<td>O'Connell 127</td>
</tr>
</tbody>
</table>

C. **Instructors**  

<table>
<thead>
<tr>
<th>CMGT 110-3,5 (Mon, Tue classes)</th>
<th>CMGT 110-4,6 (Wed, Thu classes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mike Borzage <a href="mailto:mycmgt110@gmail.com">mycmgt110@gmail.com</a></td>
<td>Willem Kymmell <a href="mailto:wkymvell@csuchico.edu">wkymvell@csuchico.edu</a></td>
</tr>
<tr>
<td>Office Hours:</td>
<td>Office Hours:</td>
</tr>
<tr>
<td>Mon 8:00am-9:00am;</td>
<td>Tue/Thu 10am-11am</td>
</tr>
<tr>
<td>Tue/Thu 8:00am – 9:30am</td>
<td>Wed 10am-11am,2pm-3pm</td>
</tr>
<tr>
<td>or by appointment</td>
<td>or by appointment</td>
</tr>
<tr>
<td>Office Location:</td>
<td>Office Location:</td>
</tr>
<tr>
<td>O'Connell 329</td>
<td>O’Connell 325</td>
</tr>
<tr>
<td>Office Phone:</td>
<td>Office Phone:</td>
</tr>
<tr>
<td>530-898-4505</td>
<td>530-898-6221</td>
</tr>
</tbody>
</table>

D. **Catalog Description:**

*Develops the graphic communication knowledge and skills needed by the construction management professional. Establishes a working vocabulary of symbols, details, and views used in construction drawings. 2 hours discussion, 2 hours activity. This course requires the use of a laptop computer and appropriate software.*

The purpose of this course is to create an understanding of construction graphics as it represents our built environment, and the ability to communicate 3D forms and ideas through 2D representations and 3D computer models.

CMGT 110 addresses techniques of basic sketching and visualization, as well as an introduction to Computer Aided Drafting and Modeling, the basics of reading construction drawings. Sketch-Up, Revit, and Navisworks (3D modeling and viewing software tools) are used.

E. **Course Learning Outcomes (CLO):**

*Upon successful completion of this course, the student will be able to:*

1. Identify key Construction Graphics and Modeling Terminology.
3. Recognize the Application of Virtual Construction and Modeling in the Design and Construction industry, i.e. where and how modeling is used.
4. Demonstrate Skills in the basic Building and Manipulation of 3D Computer Models. [ACCE-SLO #10].

**ACCE-SLO:** American Council for Construction Education – Student Learning Outcomes

SLO #10 – “Apply electronic-based technology to manage the construction process.”

**ACCE Assessment Mapping:**

<table>
<thead>
<tr>
<th>SLO</th>
<th>CLO</th>
<th>Assessment Type</th>
<th>Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>4</td>
<td>Activites 3, 5 &amp; 7</td>
<td>70% will earn &gt;69%</td>
</tr>
</tbody>
</table>

Activities 3, 5 and 7 are software related and contain exercises in SketchUp, Revit and Navisworks.

F. **Course Resource Materials Requirements:**
There is no required textbook for this class.

RECOMMENDED REFERENCE TEXTS:

Required Tools: Please bring your required course tools to each class for use.
1. Architectural scale, Engineering scale, straight edge (triangle), graph paper, pencils and eraser.
2. SketchUp 3D modeling software (student version available free on-line).
3. Autodesk Revit Architecture and Navisworks software (student version available free on-line).
4. A set of plans for the ‘West Street Video Store’ project. (Provided on Bbl-Blackboard learn)

Laptop Computer: A personal computer will be required for assigned activity work. The computers in the university lab DO NOT HAVE THE NECESSARY SOFTWARE INSTALLED. Revit and Navisworks do not work on Mac based computer operating systems. You will be responsible to have a PC based laptop or install a windows operating system on your Mac computer (dual boot environment only!). See the “Use of Laptops” section of Blackboard learn for further information.

G. Course Requirements:

Conduct
All students are adults and will be treated and respected as such. This means that you will be held accountable for your actions, decisions, and their consequences. Each of you has to conduct yourself in a professional and mature manner, showing courtesy and respect for fellow students and the instructor. During class time NO unprofessional behavior will be tolerated, and if observed, will result in you being asked to leave and forfeit that day’s participation points. The classroom needs to reflect the professional environment of the Construction Managers Office.

Honesty in the Classroom
You are expected to be familiar with the University’s policy on academic integrity. As such, there is no tolerance for dishonesty, sharing of work, and especially copied work. Ethical standards as established by the university will be strictly upheld (see THE UNIVERSITY CATALOG).

Tobacco Products
The use of any type of tobacco product including smokeless, chewable or otherwise is not permitted in any building at California State University, Chico.

Electronic Devices
The use of pagers, phones, MP3 players and other electronic devices (excluding laptops) is not permitted in class. If you must take a call (work or emergency), please EXIT the classroom before answering the call.

Withdrawal from Class
Please refer to the Academic Calendar Deadlines as published in the University Catalog.

Professional Work
As a student looking towards gaining an internship within the construction industry, it is expected that your completed work will be professional in content and presentation. Consider this course as practice in presenting professional quality work to your future employer.
H. Instructional Methods:

This course is designed around the following methods of presenting material to the student:

1. Class discussions (and homework assignments) reinforced by in class quizzes and exams.
2. Homework assignments (these may be started in class and finished outside of class time as necessary), which are designed to reinforce the students learning process of reading drawings, visualizing 3D forms and using computer software in a 2D and 3D construction environment.
3. Quizzes to inform the student of strengths and weaknesses in the course material before the exams.

I. Activities, Assignments:

This course has regular activities (homework assignments) that may build on each other. All assignments are due as shown in the class schedule, late submittals will be marked down 10% per day. Completed assignments are due at the beginning of class as per Class Schedule posted on Bbl; please bring your work pre-printed to class for submission or post it on Bbl as per instructions.

All assignments are expected to be well organized, legible, and have a professional appearance. Homework assignment requirements will be posted on Blackboard Learn and clearly defined prior to the due date to give each student the time to complete it professionally.

Group Work
You are encouraged to study and work in groups, however all submitted work must be your own original work. DO NOT SHARE YOUR WORK WHEN YOU WORK TOGETHER, SHARE YOUR UNDERSTANDING OF THE MATERIAL.

J. Assessments:

Assessments are the basis of determining your ability to create, analyze, apply, and understand the Course Learning Outcomes (CLO) and Student Learning Outcomes (SLO) provided by ACCE. Instructional target goals have been established (as noted above) and the results of the assessment in these areas will be used to determine the success of the student and instructor for this course.

Participation, Attitude, and Attendance:
A portion of your course grade will be based on participation and attendance.
Attendance/Participation is documented at the END of each class, this is a major consideration in determining your participation points. It’s your responsibly to “sign out” at the end of each class period. Please make sure to sign the roll sheet by the end of each class.

Quizzes:
Quizzes are based on the class discussions and homework assignments. Quizzes will be given at unannounced times. Please bring your required course tools to each class for use.
There will be NO make-up quizzes, unless prior arrangements have been made.

Exams:
There will be two mid-term exams and one final exam. The final exam will cover the coursework from the whole semester. If a student is unable to take an exam due to an emergency or illness, or is entitled to special dispensation the instructor should be notified in advance. Non-excused absences will yield a score of zero. No makeup exams will be given, except for a serious and compelling reason as outlined by the University Catalog.
K. **Grading/Evaluation:**

Points are assigned as shown in the Course Schedule on Blackboard Learn.

L. **Topical Outline**

See the Course Schedule on Blackboard Learn.

M. **University Policies and Campus Resources**

**Academic integrity**

Students are expected to be familiar with the University's Academic Integrity Policy. Be familiar with the University's policy on academic honesty, this is a serious issue, no form of dishonesty such as plagiarism or cheating will be tolerated. Your own commitment to learning, as evidenced by your enrollment at California State University, Chico, and the University's Academic Integrity Policy requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the Office of Student Judicial Affairs. The policy on academic integrity and other resources related to student conduct can be found at: [http://www.csuchico.edu/sjd/sja.shtml](http://www.csuchico.edu/sjd/sja.shtml)

**Campus Policy in Compliance with the American Disabilities Act**

If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Students with disabilities requesting accommodations must register with the DSS Office (Disability Support Services) to establish a record of their disability.

Special accommodations for exams require ample notice to the testing office and must be submitted to the instructor well in advance of the exam date.

**Student Computing**

Computer labs for student use are available [http://www.csuchico.edu/stcp](http://www.csuchico.edu/stcp) located on the 1st floor of the Merriam Library Rm 116 and 450, Tehama Hall Rm.131 and the BMU Rm 301.

**Student Services**

Student services are designed to assist students in the development of their full academic potential and to motivate them to become self-directed learners. Students can find support for services such as skills assessment, individual or group tutorials, subject advising, learning assistance, summer academic preparation and basic skills development. Student services information can be found at: [http://www.csuchico.edu/5.-studentservices.html](http://www.csuchico.edu/5.-studentservices.html).

**Disability Services**

Any student who feels s/he may need an accommodation based on the impact of a disability should contact me privately to discuss your specific needs. Please also contact the Disability Support Services office to coordinate reasonable accommodations for students with documented disabilities. Disabilities Support Services online: [http://www.csuchico.edu/dss/studentServices/](http://www.csuchico.edu/dss/studentServices/).

**Student Learning Center**

The mission of the Student Learning Center (SLC) is to provide services that will assist CSU, Chico students to become independent learners. The SLC prepares and supports students in their college course work by offering a variety of programs and resources to meet student needs. The SLC facilitates the academic transition and retention of students from high schools and community colleges by providing study strategy information, content subject tutoring, and supplemental instruction. The SLC is online at [http://www.csuchico.edu/slc/](http://www.csuchico.edu/slc/). The University Writing Center has been combined with the Student Learning Center.
SUPPLEMENTAL INSTRUCTIONS

ATTENDANCE: You must attend all classes and lab periods. There will be a sign-in sheet to track this requirement. If you fail to sign this sheet (for any reason) you are marked as “missing”, and no credit can be given to you. EXCEPTION: Since no one is perfect, you will be allowed to miss two classes for any reason, and one class with evidence (doctor note, court notice). However, field trips, interviews, five star vacations will NOT be given any additional consideration. Plan accordingly.

PARTICIPATION and PREPARATION: At the discretion of the instructor, your grade may be raised for your enthusiastic participation in the class. This is generally exemplified by such means as voluntarily answering of question, and visits during office hours, as well as not missing any classes and staying the entire scheduled time.

QUIZZES: No makeup. Some Quizzes will be announced, others will not. Come to class prepared.

FINAL EXAM; must be passed with a minimum grade of 50%, or a grade of “F” will result! Further, a failure to achieve an overall grade of “C−” demonstrates a general lack of readiness to move forward with other CM courses. You will not be permitted to enter into Junior level coursework until this is remediated, or unless you petition for a special exception to the department requirement.

CLASS BUDDY: make friends with a classmate, who will “cover” for you if or when you are unable to attend class. Ask your “class buddy” the stupid questions, such as; “Did I miss anything today?”!

RECORD OF YOUR WORK: Collect and/or keep printed copied of all of your work. If there is any question relating to any assignment, bring this work (in your binder) to the instructor for review.

RETURN OF WORK: Generally, assignments and quizzes will be returned in the next class. It is your responsibility or that of your “class buddy” to collect and retain these. Unclaimed work will be lost.

LATE WORK. You will be allowed one late submittal of your work! However, this must be turned in within one week of the original due date, and will only be for one half credit. AND, in addition, there will be one throw out for your lowest assignment score.

This document was last updated on January 14, 2017