1: Course Number and Name
   a. ENGR 4201: Professional Engineering Practice, Spring 2020
   b. Section 010, W 4:00 – 5:50 pm

2: Credits and Contact Hours
   a. Credits: 2
   b. Contact Hours: 2 hours/week (Classroom)

3: Instructor Information
   a. Course Coordinator: William Kitch
   b. Instructors:
      i. William Kitch, 325-486-5501, william.kitch@angelo.edu, Office: VIN 268. For
         office hours see faculty homepage.
      ii. Carlos Rodriguez, Esq; 325-653-6866, crod@webbstokessparks.com, Office:
          Off Campus. Office hours by appointment
      iii. Paul Stipanovic, Esq; 325-653-3291, PaulS@ghtxlaw.com, Office: Off Campus.
          Office hours by appointment

4: Course Materials
   Readings will be posted on-line. You do not need to purchase a textbook.

5: Specific Course Information
   a. Catalog Description: The role of the engineer as a design professional. Professional
      responsibility and liability, contract law, risk management, contract formation, business
      practices, ethics and professional registration.
   c. Prerequisites: Senior Standing
   d. Required or elective: Required for the BSCE and BSME Majors.

6: Specific Goals for the Course
   a. Course Learning Outcomes:
      1. Describe attributes of a profession and a design professional and the legal environment in
         which design professionals work.
      2. Define torts and apply legal principles to simple cases to find legal fault
      3. Compare and contrast negligence, simple liability, and professional liability
      4. Negotiate contract terms, performance disputes, and liability disputes in the context of
         professional design practice
      5. Describe professional licensure process and ethical responsibilities of registered
         professionals
      6. Given fiscal data compute simple business performance data such as profit/loss, billing
         rates, and break even multiplier
b. Course Learning Outcome Mapping to ABET Criterion 3 Student Outcomes:

Table 1: Course Learning Outcomes mapped to ABET Student Outcomes

<table>
<thead>
<tr>
<th>ABET Student Outcomes</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Solve Problems</td>
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<tr>
<td>2. Design</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td>3. Communication</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
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<tr>
<td>4. Ethics &amp; Professionalism</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
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<tr>
<td>5. Teamwork</td>
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<tr>
<td>6. Experimentation</td>
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<td></td>
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<tr>
<td>7. Acquire New Knowledge</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

7: Topics Covered

1. Professions and professionalism
2. Project delivery methods
3. Tort, liability, and negligence
4. Contract formation, clauses, and negotiation
5. Professional licensure
6. Profit, loss and budget planning
7. Practicing professional perspectives
8: Course structure and communication

This course is a hybrid between a seminar and lecture course. The value of the course to you will be highly dependent upon your preparation for class. We will be using both Blackboard, email, and Piazza to communicate during this course. Lesson materials will be delivered via Blackboard.

9: Professionalism

Professional engineering standards apply in this class. You are expected to demonstrate a behavior consistent with the conduct of an individual practicing in the engineering profession. You are expected to: (1) come prepared for class; (2) respect faculty and peers; (3) demonstrate responsibility and accountability for your own actions; (4) demonstrate sensitivity and appreciation for diverse cultures, backgrounds, and life experiences; (5) offer and accept constructive criticism in a productive manner; (6) demonstrate an attitude that fosters professional behavior among peers and faculty; (7) be punctual to class meetings; (8) maintain a good work ethic and integrity; and (9) recognize the classroom as a professional workplace.

10: Graded Material

10.1: Class Attendance, Participation, Timeliness and Teamwork

The number one complaint of engineering clients is the timeliness of deliverables (reports, drawings, specifications, etc.). As a professional engineer you will be expected to arrive at scheduled meetings on time and prepared. Late proposals are not generally accepted. Late specifications or drawings may cost the engineer a monetary penalty. Professional engineering standards apply in this course.

You are expected to meet every class meeting on time and prepared. Attendance will be taken. Should you find it necessary to miss a class for any reason, you are expected to notify your instructor as early as the absence is known—preferably before the absence. It’s important that you communicate clearly your instructors.

Your online assignments will be due at the time specified on Blackboard. Any assignments submitted in hard copy are due at the beginning of class on the due date. Your instructor may assess penalties for late work.

10.2: Reading Assignments and Homework

You will be given reading and homework assignments nearly every lesson. Reading assignments will come from the assigned textbooks or other materials provided or available via the web. The homework assignments will consist of questions to be answered during your reading and preparation for class. Reading and homework assignments will be distributed via the Blackboard.

10.3: Quizzes

Instructors may give in-class quizzes. The quizzes will be unannounced and unscheduled. The quizzes are intended to determine whether or not you have completed the pre-class work and are prepared for class.

10.4: Course Exercises

There will be two in-class exercises in this course. Participation in both exercises is expected from all students. Zero points will be awarded for missed exercises. These exercises cannot be made up.

10.5: Exams

This course will have two exams, a mid-term and a final. Both exams will be in a take-home exam format.
10.6: Grades: Weighting and Letter Grades

The weighting system shown in Table 2 will be used in determining final grade for the course.

Table 2: Grade Weighting

<table>
<thead>
<tr>
<th>Item</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>12%</td>
</tr>
<tr>
<td>Attendance &amp; participation</td>
<td>4%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>4%</td>
</tr>
<tr>
<td>In-class exercises</td>
<td>20%</td>
</tr>
<tr>
<td>Midterm exam</td>
<td>30%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

The instructor will determine letter grades for the course using his professional judgment, and the following standards as described in the University Catalog:

A = excellent work  B = good work  C = average work  D = poor work  F = failing work

11: Classroom and University Policies and Student Support

11.1: General Policies

All students are required to follow the policies and procedures presented in the Angelo State University Student Handbook¹ and Angelo State University Catalog².

11.2: Student Disability Services

ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA) and subsequent legislation.

Student Disability Services is located in the Office of Student Affairs and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student’s responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For more information about the application process and requirements, visit the Student Disability Services website³. The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dallas Swafford
Director of Student Disability Services
Office of Student Affairs
325-942-2047
dallas.swafford@angelo.edu
Houston Harte University Center, Room 112
11.3: Title IX at Angelo State University

The University prohibits discrimination based on sex, which includes pregnancy, sexual orientation, gender identity, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination including: sexual assault, sex-based discrimination, sexual exploitation, sexual harassment, public indecency, interpersonal violence (domestic violence and/or dating violence), and stalking. As a faculty member, I am a Responsible Employee meaning that I am obligated by law and ASU policy to report any allegations I am notified of to the Office of Title IX Compliance.

Students are encouraged to report any incidents of sexual misconduct directly to ASU’s Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator at:

Michelle Boone, J.D.
Director of Title IX Compliance/Title IX Coordinator
Mayer Administration Building, Room 210
325-942-2022, michelle.boone@angelo.edu

You may also file a report online 24/7 at www.angelo.edu/incident-form.

If you are wishing to speak to someone about an incident in confidence you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345.

For more information about resources related to sexual misconduct, Title IX, or Angelo State’s policy please visit: www.angelo.edu/title-ix.

11.4: Observance of Religious Holy Day

A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for Observance of Religious Holy Day for more information.

11.5: Incomplete Grade Policy

It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 Grading Procedures for more information.

11.6: Student Conduct Policies

11.6.1: Academic Integrity

Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.

The College of Science and Engineering adheres to the university’s Statement of Academic Integrity.

11.6.2: Plagiarism

Plagiarism is a serious topic covered in ASU’s Academic Integrity policy in the Student Handbook. Plagiarism is the action or practice of taking someone else’s work, idea, etc., and passing it off as one’s own. Plagiarism is literary theft.
In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list.

Papers are subject to be evaluated for originality via Turnitin or SafeAssign. Resources to help you understand this policy better are available at the ASU Writing Center.

11.6.3: Copyright Policy
Students officially enrolled in this course should make only one printed copy of the given articles and/or chapters. You are expressly prohibited from distributing or reproducing any portion of course readings in printed or electronic form without written permission from the copyright holders or publishers.

12: Course Outline
The course outline is presented in the table next page. Detailed reading and homework assignments along with updates to this schedule will be provided via Bb. The following schedule may be modified as the semester progresses.
### Table 3: Course Lesson Outline

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Instructor</th>
<th>Assignment Due</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Block I: The Profession, Project Delivery and Selection</strong></td>
<td></td>
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</tr>
<tr>
<td>1</td>
<td>Jan 15</td>
<td>Course introduction: Professional Expectations</td>
<td>Kitch</td>
<td>Homework</td>
</tr>
<tr>
<td>2</td>
<td>Jan 22</td>
<td>Professional Engagement: Project delivery</td>
<td>Kitch</td>
<td>Homework</td>
</tr>
<tr>
<td>3</td>
<td>Jan 29</td>
<td>Professional Engagement: the selection process</td>
<td>Kitch</td>
<td>Homework</td>
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<tr>
<td></td>
<td></td>
<td><strong>Block II: Negligence, Standard of Care, and Risk Management</strong></td>
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<tr>
<td>4</td>
<td>Feb 5</td>
<td>Weather closure</td>
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<tr>
<td>5</td>
<td>Feb 12</td>
<td>Risk analysis and risk management</td>
<td>Kitch</td>
<td>Homework</td>
</tr>
<tr>
<td>6</td>
<td>Feb 19</td>
<td>Law, legal analysis and liability</td>
<td>Rodriguez</td>
<td>Homework</td>
</tr>
<tr>
<td>7</td>
<td>Feb 26</td>
<td>Negligence, strict liability, and Professional liability</td>
<td>Rodriguez</td>
<td>Homework</td>
</tr>
<tr>
<td>8</td>
<td>Mar 4</td>
<td>Product Liability &amp; Intellectual Property Law</td>
<td>Conklin</td>
<td>Homework</td>
</tr>
<tr>
<td></td>
<td>Mar 11</td>
<td>Spring Break</td>
<td></td>
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<tr>
<td>9</td>
<td>Mar 18</td>
<td>Class exercise #1: Professional negligence</td>
<td>Rodriguez</td>
<td>Homework</td>
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<td></td>
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<td><strong>Block III: The Contract</strong></td>
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<td>10</td>
<td>Mar 25</td>
<td>Contract formation: elements of law</td>
<td>Stipanovic</td>
<td>Homework</td>
</tr>
<tr>
<td>11</td>
<td>Apr 1</td>
<td>Contract documents and clauses</td>
<td>Stipanovic</td>
<td>Homework</td>
</tr>
<tr>
<td>12</td>
<td>Apr 8</td>
<td>Contract formation: the engineer’s perspective</td>
<td>Kitch</td>
<td>Homework</td>
</tr>
<tr>
<td>13</td>
<td>Apr 15</td>
<td>Class exercise #2: Contract negotiation and documentation</td>
<td>Stipanovic</td>
<td>Homework</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Block IV: Licensure &amp; business operations</strong></td>
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</tr>
<tr>
<td>14</td>
<td>Apr 22</td>
<td>Professional licensing and ethics</td>
<td>Kitch</td>
<td>Homework</td>
</tr>
<tr>
<td>15</td>
<td>Apr 29</td>
<td>Budget planning &amp; labor utilization</td>
<td>Kitch</td>
<td>Homework</td>
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<tr>
<td></td>
<td>May 4</td>
<td>Final exam 6:00 – 8:00 pm</td>
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<td></td>
</tr>
</tbody>
</table>

13: End Notes

2. [http://www.angelo.edu/catalogs/](http://www.angelo.edu/catalogs/)
3. [http://www.angelo.edu/services/disability-services/](http://www.angelo.edu/services/disability-services/)
4. [http://www.angelo.edu/incident-form](http://www.angelo.edu/incident-form)
5. [http://www.angelo.edu/title-ix](http://www.angelo.edu/title-ix)
6. [http://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of](http://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of)