# Assessment Plan for COSC 402 – Spring 2018

**Student Outcome (2): Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program’s discipline.**

Rubric for this Outcome:

* **Exceeds Expectations:** Demonstrates an **elegant** ability to design and implement a system using an architecture that is modular, reusable, and reliable.
* **Meets Expectations**: Demonstrates a **sufficient** ability to design and implement a system using an architecture that is modular, reusable, and reliable. However, the resulting system may exhibit **some shortcomings** in modularity, reusability, or reliability.
* **Not Meets Expectations**: Demonstrates an **inability** to design a system using an architecture that is modular, reusable, and reliable. The resulting architecture exhibits **significant shortcoming**s in modularity, reusability, or reliability.

Assessments for this Outcome:

1. Design Component for Preliminary Design Document (25%)
2. Design Component for Final Design Document (75%)

**Student Outcome (3) Communicate effectively in a variety of professional contexts.**

Rubric for this outcome:

* + **Exceeds Expectations:** 
    1. Submits **well-written, well-organized, and well-reasoned** documents that are **well-supported** if necessary by appropriate citations
    2. **speaks clearly and articulately** during presentations
    3. prepares visual aids that **complement, support, and significantly enhance** either the written or oral presentation.
  + **Meets Expectations:**
    1. Submits written documents that **communicate the relevant material** but may have some grammatical errors, may have some sections that seem out of place, may not make points as clearly as might be possible, or may lack some appropriate citations.
    2. Communicates **adequately** during oral presentations but some aspects of the presentation, such as pacing, organization, clarity of speaking, reading from notes, or facing the audience rather than slides can be improved.
    3. Prepares visual aids that **usually complement and support** the written or oral presentation, but some may lack effectiveness because they are too busy, visually unappealing, or do not present information in the most effective manner.
  + **Not Meets Expectations:**
    1. Submits **poorly written, poorly organized, poorly reasoned, and/or poorly supported (inadequate citations)** documents.
    2. Communicates **ineffectively** during oral presentations because many elements of the presentation are executed poorly, such as improper pacing, confused organization, lack of clarity while speaking, excessive reading from notes, or not facing the audience.
    3. Prepares visual aids that **either do not aid or detract** from the written or oral presentation, because they are too busy, visually unappealing, or present information ineffectively.

Assessments for this Outcome:

* 1. Written Component for Preliminary Design Document (25%)
  2. Written Component for Final Design Document (25%)
  3. Oral Presentation for Final Design Document (25%)
  4. Poster Presentation (25%)

**Student Outcome (4) Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.**

Rubric for this outcome:

* **Exceeds Expectations: Comprehensively** identifies the key aspects of the issue, **insightfully** discusses alternative views of these key aspects, and provides a **convincing** argument for how to resolve the issue.
* **Meets Expectations:** Identifies **most** of the key aspects of the issue, **satisfactorily** discusses most of the relevant alternative views of these key aspects, and provides an **adequate** argument for how to resolve the issue.
* **Not Meets Expectations:** Identifies **few** if any of the key aspects of the issue, provides either a **superficial** discussion of the relevant alternative views of these key aspects or **fails** to identify and discuss multiple alternative views, and provides a **non-compelling** argument for how to resolve the issue.

Assessments for this Outcome:

1. Exam on professional responsibilities (40%)
2. Professional responsibilities component of preliminary design document (10%)
3. Professional responsibilities component of final design document (20%)
4. Written paper on an ethical issue in design (30%)

**Student Outcome (5) Function effectively as a member or leader of a team engaged in activities appropriate to the program’s discipline.**

Rubric for this outcome:

* + **Exceeds Expectations**: Performs assigned tasks **on-time and without prompting**, completes assigned tasks in an **exemplary** manner, and **actively** gathers, respects, and integrates teammates’ viewpoints.
  + **Meets Expectations**: Performs assigned tasks but **may require some prompting**, completes assigned tasks in a **satisfactory** manner, and makes an **acceptable effort** to gather, respect, and integrate teammates’ viewpoints.
  + **Not Meets Expectations**: **Fails to complete** assigned tasks on time, **incompletely finishes** tasks, thus forcing teammates to cover for the student, and/or demonstrates **insufficient regard** for teammates’ viewpoints.

Assessments for this Outcome:

1. Instructors’ assessment of student’s performance on the team throughout the semester (40%)
2. Teammates’ assessment of student’s performance on the team (20%)
3. Team component of poster presentation (20%)
4. Team component of final design document (20%)