**Northeastern University**

**Department of Civil and Environmental Engineering**

Instructor’s Assessment

CIVE 4575 Construction Management

**Semester / Year:** Spring / 2013 **Instructor: Ali Touran Date: 05/13/2013**

Expectations regarding this course assessment:

1. Before the start of the course, review the most recent instructor assessment for recommendations on how to improve the course.
2. For this course, grade summaries will be based on midterm and final exam questions.
3. *Questions to be asked on the in-class evaluation:*  Listed in item 3 below.
4. This assessment form is based on the set of topics and learning outcomes listed in the course syllabus. Do not change this part of the syllabus without action from the discipline group. If there is a change, notify the Undergraduate Studies Committee so that this form can be modified.
5. Complete the form and save it as a Word document with filename like this: IAssess\_4575 \_2013\_Fall

**1. What course improvements did you make? How successful were they? Relate them to recommendations made in previous course assessments.** *Expand the table as necessary.*

|  |  |
| --- | --- |
| 1. |  |
| 2. |  |
| 3. |  |

**2. Your response to student comments and/or TRACE evaluation:** *Respond to serious criticisms and suggestions. Expand table as necessary.*

|  |  |  |
| --- | --- | --- |
|  | **Student Comment** | **Your Comment(s)** |
| 1. | Some dissatisfaction on the software teaching and TA’speed. | Software component is covered by TA and supervised by myself. I have set up a meeting with TA to evaluate the pace of the software coverage. One general issue is that with the large class (45) the computing facilities are extremely limited and we had to hold software session to a time outside regular class time.  |
| 2. |  |  |
| 3. |  |  |

**3. Student questionnaire summary**

*Does not apply.*

**4. Grade Summary**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Midterm exam question #** | **Topic** | **Average score** (0 to 100) | **% students with adequate achievement** | **Comment on any item with poor achievement** |
| M1. | Course objectives | 82 | 84 |  |
| M2. | Contract documents | 93 | 93 |  |
| M3. | Types of delay | 91 | 93 |  |
| M4. | Project delivery systems | 75 | 87 |  |
| M5. | Bid bonds | 68 | 60 |  |
| M6. | CPM calculations | 96 | 100 |  |
| M7. | Project updating using CPM | 81 | 76 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Final exam question #** | **Topic** | **Average score** (0 to 100) | **% students with adequate achievement** | **Comment on any item with poor achievement** |
| F1. | CPM network  | 85 | 84 |  |
| F2. | Detailed estimating | 71 | 67 |  |
| F3. | Contractor’s cash flow | 79 | 69 |  |
| F4. | Take-off and labor & equipment cost calculation | 55 | 31 | The problem involved quantity takeoff and students had a hard time reading the drawings! |
| F5. | Project funding | 58 | 38 | The nature of problem needed a deep understanding of the project funding issues. |
|  |  |  |  |  |

**5. Here are the topics listed on your syllabus.** Based on your grade summaries, report the fraction of students that showed ability to apply knowledge and to identify, formulate, and solve problems. In the column “Basis for assessment” report the particular item(s) in the grade summary that support this assessment; or if the topic is not covered in the grade summary, state the basis of your assessment.

|  |  |  |  |
| --- | --- | --- | --- |
| **Topic / Learning Outcome** | **Percentage of students showing ability to apply knowledge and solve problems** | **Basis for assessment** | **Comments** |
| 1. *Construction industry overview*
 | 84 | M1 |  |
| 1. *Parties involved and project life cycle*
 | 87 | M4 |  |
| 1. *Construction contracts*
 | 93 | M2, homework |  |
| 1. *Construction claims and disputes*
 | 93 | M3 |  |
| 1. *Labor and equipment productivity and cost*
 | 60 | F4, several homeworks | Several homeworks were assigned and graded on these topics. |
| 1. *Conceptual and detailed cost estimating*
 | 60 | F2, F4 |  |
| 1. *Project planning and scheduling using CPM*
 | 85 | M6, M7, F1 |  |
| 1. *Resource management*
 | 91 | Homework | Overall performance on homework. |
| 1. *Schedule acceleration techniques*
 | 91 | Homework | Overall performance on homework. |
| 1. *Project cost and schedule control*
 | 75 | M7, F3 |  |
| 1. *Construction finance and project cash flow*
 | 60 | F3, F5 |  |

**6. Assessment of Program-Level Outcomes not Covered in Topic Assessment**

What percentage of students achieved the following learning outcomes?

|  |  |  |  |
| --- | --- | --- | --- |
| **Learning Outcome** | **Percentage achieving** | **Basis for this rating**  | **Comments?** |
| an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice | 100 | Grades for the computer project | The computer project was a substantial effort that covered various aspects of project management using the MS Project software. |

**7. Recommendations for improving this course.** Expand the table as needed.

|  |  |
| --- | --- |
| 1. | Computer facilities need expansion with the larger class size. Current facilities can accommodate up to about 30 students.  |
| 2. | We are redesigning the computer lab sessions into more sessions focusing on more specific features of the software so that students can follow the material more effectively. |
| 3. |  |