A. **Academic Division**: Business, Industry, and Technology

B. **Discipline**: Industrial Technology – Industrial Maintenance

C. **Course Number and Title**: EMMT1030 OSHA Safety Regulations

D. **Course Coordinator**: Randy Storms  
   **Assistant Dean**: Daniel Wagner

**Instructor Information:**
- Name: Click here to enter text.  
- Office Location: Click here to enter text.  
- Office Hours: Click here to enter text.  
- Phone Number: Click here to enter text.  
- E-Mail Address: Click here to enter text.

E. **Credit Hours**: 2

F. **Prerequisites**: None

G. **Syllabus Effective Date**: Fall 2017

H. **Textbook(s) Title**: None

I. **Workbook(s) and/or Lab Manual**: None

J. **Course Description**: Students will be taught the approved Occupational Safety and Health Administration (OSHA) curriculum for the 30-hour Voluntary Protection Program course on general industry standards. Subjects covered will include: hazard communications, lockout/tagout, machine guarding, electrical standards, hazardous and voluntary protection program compliance.

K. **College-Wide Learning Outcomes**

<table>
<thead>
<tr>
<th>College-Wide Learning Outcome</th>
<th>Assessments - - How it is met &amp; When it is met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication – Written</td>
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<td>Communication – Speech</td>
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<td>Intercultural Knowledge and Competence</td>
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<td>Critical Thinking</td>
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<td>Information Literacy</td>
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<td>Quantitative Literacy</td>
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</table>
L. Course Outcomes and Assessment Methods:

Upon successful completion of this course, the student shall:

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>Assessments – How it is met &amp; When it is met</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Recognize the hazards and causes of hazards commonly associated with work on or around scaffolds.</td>
<td>Quizzes, midterm and final exam - Week 1.</td>
</tr>
<tr>
<td>2. Discuss the general OSHA requirements for scaffold safety.</td>
<td>Quizzes, midterm and final exam - Week 1.</td>
</tr>
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<td>3. Recognize the hazards involved with power transmission and distribution.</td>
<td>Quizzes, midterm and final exam - Week 2-3.</td>
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<tr>
<td>4. Discuss methods to abate hazards involved with operations such as: tree trimming, live line work, confined spaces, and substation entry</td>
<td>Quizzes, midterm and final exam - Week 2-3.</td>
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<td>5. Identify common machines and associated hazards found within a broad spectrum of industries.</td>
<td>Quizzes, midterm and final exam - Week 4.</td>
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<td>6. Identify hazards that occur around machinery, including, but not limited to, woodworking equipment, metal-working equipment, and mechanical power presses.</td>
<td>Quizzes, midterm and final exam - Week 5.</td>
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<td>7. Recognize hazards common to abrasive wheels, power transmissions, mills, and calendars.</td>
<td>Quizzes, midterm and final exam - Week 6.</td>
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<td>9. Select appropriate OSHA standards that apply to a hazard.</td>
<td>Quizzes and final exam - Week 9.</td>
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<td>10. Explain the importance of energy control programs, procedures, training, audits and methods of controlling hazardous energy.</td>
<td>Quizzes and final exam - Week 10.</td>
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<td>11. Demonstrate the knowledge and skills required to safely perform servicing and maintenance activities.</td>
<td>Quizzes and final exam - Week 11.</td>
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<td>12. Describe the effects of electrical currents on the human body with respect to voltage, current path, and the duration of exposure.</td>
<td>Quizzes and final exam - Week 12.</td>
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<tr>
<td>13. Discuss the hazards of arc flash and blast</td>
<td>Quizzes and final exam - Week 13.</td>
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</tbody>
</table>

M. Topical Timeline (Subject to Change):

1. Introduction to OSHA
2. Hazard Violation Search Workshop
3. Safety programs
4. Recordkeeping
5. Hazard communication
6. Health hazards in construction
7. Personal protective equipment
8. Fire protection and prevention
9. Materials handling
10. Hand and power tools
11. Fall hazards
12. Personal fall arrest systems
13. Scaffold access
14. Struck by falling objects hazards
15. Electrocution hazards
16. Scaffold collapse hazards
17. Review of general requirements for supported and suspended scaffolds
18. Overview of additional requirements for specific types of scaffolds
19. Scaffold training requirements
20. Training requirements in the electrical power industry
21. Power Transmission Hazards
22. Stairways and ladders
23. Resource Conservation & Recovery Act (RCRA), including Hazardous Waste Generator Requirements
24. Universal Waste
25. Emergency Planning and Community Right-to-Know Act (EPCRA), including an understanding of Tier II, TRI, and spill reporting
26. Protection from arc flashes and blasts
27. Hazardous Chemical Storage, including RMP and CFATS
28. Industrial Wastewater
29. Environmental Management Systems - ISO 14001
30. Material Safety Data Sheets
31. Electronic Waste
32. Hazards and standards workshop
33. Review of machinery and machine guarding
34. Review of guarding and devices
35. Control of hazardous energy sources (lockout/tagout)
36. Electrical safety-related work practices
37. Energy Control Program
38. Energy Control Procedures
39. Lockout/Tagout
40. Flammable and combustible liquids
41. Compressed gases
42. LP gas
43. Cryogenic liquids
44. Spraying and dipping processes
45. Electrical equipment
46. Process safety management
47. Hazardous waste operations and emergency response
48. Permit-required confined space entry
49. Welding
50. Ammonia
51. Electrical safety-related work practices
52. Dielectric personal protective equipment
53. NFPA 70E

N. Course Assignments:

1. Homework: Selected problems and questions from weekly reading assignments must be completed.
2. Labs: Various self-paced and computer monitored labs administered in the IST lab.
3. Quizzes: Quizzes will be administered online via LMS.
4. Midterm: The midterm exam will be administered during week 8.
5. Final: There will be a comprehensive final at the end of the semester.
O. **Recommended Grading Scale:**

<table>
<thead>
<tr>
<th>NUMERIC</th>
<th>GRADE</th>
<th>POINTS</th>
<th>DEFINITION</th>
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<tbody>
<tr>
<td>93–100</td>
<td>A</td>
<td>4.00</td>
<td>Superior</td>
</tr>
<tr>
<td>90–92</td>
<td>A-</td>
<td>3.67</td>
<td>Superior</td>
</tr>
<tr>
<td>87–89</td>
<td>B+</td>
<td>3.33</td>
<td>Above Average</td>
</tr>
<tr>
<td>83–86</td>
<td>B</td>
<td>3.00</td>
<td>Above Average</td>
</tr>
<tr>
<td>80–82</td>
<td>B-</td>
<td>2.67</td>
<td>Above Average</td>
</tr>
<tr>
<td>77–79</td>
<td>C+</td>
<td>2.33</td>
<td>Average</td>
</tr>
<tr>
<td>73–76</td>
<td>C</td>
<td>2.00</td>
<td>Average</td>
</tr>
<tr>
<td>70–72</td>
<td>C-</td>
<td>1.67</td>
<td>Below Average</td>
</tr>
<tr>
<td>67–69</td>
<td>D+</td>
<td>1.33</td>
<td>Below Average</td>
</tr>
<tr>
<td>63–66</td>
<td>D</td>
<td>1.00</td>
<td>Below Average</td>
</tr>
<tr>
<td>60–62</td>
<td>D-</td>
<td>0.67</td>
<td>Poor</td>
</tr>
<tr>
<td>00–59</td>
<td>F</td>
<td>0.00</td>
<td>Failure</td>
</tr>
</tbody>
</table>

P. **Grading and Testing Guidelines:**

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Q. **Examination Policy:**

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R. **Class Attendance and Homework Make-Up Policy:**

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S. **Classroom Expectations:**

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T. **College Procedures/Policies:**

**Attendance Requirements:** All students are required to attend all scheduled classes and examinations. Each faculty member has the right to establish regulations regarding attendance that he/she considers necessary for successful study.

Students who do not attend classes may be administratively withdrawn from those classes. However, failure to attend classes does not constitute withdrawal, and students are expected to process a formal withdrawal though the Student Records Office in Kee Hall.

**Student engagement requirements:**
Student engagement is based on the “active pursuit” of learning which can be measured by class attendance, class participation (in class or online), taking required quizzes/examinations, and submission of work assignments or papers. Student engagement consists of a student attending at least 60% of the class sessions (there should be attendance throughout the term) and/or completing 75% of the assignments listed on the syllabus at the midpoint in the term. Exceptions can be made when there is on-going communication between the student and faculty member. The communication must be documented and the faculty member and student must be in agreement regarding the exception. Students not meeting the expectation will be administratively withdrawn from class. If a student believes he/she was administratively withdrawn in error, he/she may file an appeal. Being administratively withdrawn may have program and financial aid implications.
**Academic Misconduct** is any activity that tends to compromise the academic integrity of the college, or subvert the educational process. Examples of academic misconduct include, but are not limited to:

1. **Violation of course or program rules** as contained in the course syllabus or other information provided to the student; violation of program requirements as established by departments and made available to students.

2. **Plagiarism** including, but not limited to, submitting, without appropriate acknowledgment, any written, visual or oral material that has been copied in whole or in part from the work of others (whether such source is published or not) even if the material is completely paraphrased in one’s own words. This includes another individual’s academic composition, compilation, or other product, or a commercially prepared paper. Plagiarism also includes submitting work in which portions were substantially produced by someone acting as a tutor or editor.

   Such practices constitute plagiarism regardless of motive. Those who deny deceitful intent, claim not to have known that the act constituted plagiarism, or maintain that what they did was inadvertent are nevertheless subject to penalties when plagiarism has been confirmed.

3. **Cheating and dishonest practices** in connection with examinations, papers and projects, including but not limited to using unauthorized notes, study aids or information on an examination; obtaining help from another student during an examination; taking an exam or doing work for another student; providing one’s own work for another student to copy and submit as his/her own; or allowing another student to do one’s work and then submitting the work as one’s own. Also included would be altering a graded work after it has been returned, then submitting the work for re-grading; or submitting identical or similar papers for credit in more than one course without prior permission from the course instructors.

4. **Fabrication** including but not limited to falsifying or inventing any information, data or citation; presenting data that were not gathered in accordance with defined appropriate guidelines, and failing to include an accurate account of the method by which data were collected.

5. **Obtaining an Unfair Advantage** including, but not limited to stealing, reproducing, circulating, or otherwise gaining access to examination materials prior to the time authorized by the instructor; unauthorized collaborating on an academic assignment; taking, hiding or altering resource material; or undertaking any activity with the purpose of creating or obtaining an unfair advantage over another student’s academic work.

6. **Aiding and Abetting Academic Dishonesty** including, but not limited to providing material, information or other assistance to another person with the knowledge that such aid could be used in any of the violations stated above, or providing false information in connection with any inquiry regarding academic integrity.

7. **Alteration of Grades or Marks** including but not limited to, action by the student in an effort to change the earned credit or grade.

In addition, cases of academic dishonesty may involve photocopied materials. Materials used may fall under the Copyright Act. Violations of said Act may subject the user and/or the College to sanctions.

**Statement on Disabilities:** Any student who requires reasonable accommodations related to a disability should inform the course instructor and the Coordinator of Specialized Services (Room 138 in Kee Hall; phone 419-755-4727).

Students who encounter difficulty in any of their courses are encouraged to visit the Tutoring Resource Center (Room 119 in Fallerius Technical Education Center) for tutoring assistance, and the Student Success Center (Room 136 in Kee Hall) for academic assistance, advising services, referrals for personal counseling and Learning Disability (LD) Testing.
Statement on Withdrawals: As a student, you are expected to attend class. If you are unable or choose not to attend class, or if for whatever reason you are unable to keep up with the requirements of a course, you need to officially drop the class at the Student Records Office. Refund dates and withdrawal dates will vary slightly from term to term. Contact the Student Records Office for applicable dates. Additionally these dates are posted on the academic calendar available on the college’s website, www.ncstatecollege.edu, under the Academics heading on the home page and are available at the Student Records Office in Kee Hall,. Students should go to the Student Records Office (Room 142 in Kee Hall) to process their withdrawal from any class.

If you choose to walk away from your class without officially withdrawing from it, the faculty member teaching the class must grade your classroom performance on the material available to him or her. This normally results in an "F" grade. An "F" grade can lower your grade point average considerably depending on the total credits accumulated.