Faculty members are required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Academic Affairs and Standards Council.

DEPT.  CRPT  COURSE NUMBER:  1101

NUMBER OF CREDITS:  2  Lecture:  1  Lab:  1

Course Title:
Tool Safety, Construction Terms and Materials

Catalog Description:
The purpose of this course is to learn the different types of materials and terms used on all construction sites and how to maintain and use all hand and power tools.

FULFILLS MN TRANSFER CURRICULUM AREA(S)

Goal 1: Communication: ____ by meeting the following competencies:

Goal 2: Critical Thinking: ____ by meeting the following competencies:

Goal 3: Natural Sciences: ____ by meeting the following competencies:

Goal 4: Mathematics/Logical Reasoning: ____ by meeting the following competencies:

Goal 5: History and the Social and Behavioral Sciences: ____ by meeting the following competencies:

Goal 6: The Humanities and Fine Arts: ____ by meeting the following competencies:

Goal 7: Human Diversity: ____ by meeting the following competencies:

Goal 8: Global Perspective: ____ by meeting the following competencies:

Goal 9: Ethical and Civic Responsibility: ____ by meeting the following competencies:

Goal 10: People and the Environment: ____ by meeting the following competencies:

Prerequisites or Necessary Entry Skills/Knowledge:
None
### Topics to be Covered
- Tool and machine safety
- Job site safety
- Shop safety
- Tool and machine maintenance
- Construction terms
- Materials used in construction

### Student Learning Outcomes
1. Describe the hardwood and softwood classifications.
2. Recognize and name common defects in lumber.
3. Define lumber grading terms.
4. Identify common lumber sizes.
5. Explain plywood, hardboard, and particleboard grades and uses.
6. Identify nail types and sizes.
7. Recognize types of engineered lumber and list their uses and advantages.
8. Identify a variety of metal framing connectors and indicate where each is used.
9. Identify hand tools used in the carpentry trade and explain their use.
10. Identify power tools and machines used in the carpentry trade and explain their use.
11. Explain typical designs and construction of manufactured scaffold.
12. List ladder types and apply ladder and scaffolding safety rules.
13. Demonstrate safe use of hand tools, power tools, and machines.
14. Demonstrate proper care and maintenance of hand tools, power tools and machines.
15. Describe appropriate clothing suitable for carpenters to wear in safety.
16. List personal safety equipment recommended for carpenters to use.
17. Describe proper methods of lifting and carrying that avoids personal injury.
18. Explain housekeeping measures designed to promote safe working conditions.

### Is this course part of a transfer pathway: Yes ☐ No ☒

Revised Date: May 2020