SECTION C - Conditions on Enrollment

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Distance Education Approval

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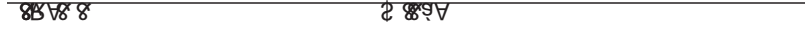
1. Geometric Dimensioning and Tolerancing (GD&T)
   a. Terminology
   b. Geometric Characteristics: Straightness, Flatness, Circularity, Cylindricity, Profile of a Rao

    a. Terminology
    b. Oils vs Greases
    c. Advantages and Limitations
    d. Types of Seals (Radial, Clearance, O-Rings)
    e. Gaskets (Metallic and Non-Metallic)
11. Reverse Engineering of Assemblies
12. CAD Networks
    a. Description of CAD Network Components
    b. Networking Installation Tools Overview
    c. Cabling, Keystones, CAT Cables, and Accessories Overview
13. 3D Printing
    a. Overview
    b. Capabilities and Limitations
    c. Cost of Materials Considerations
    d. Strength of Part Considerations
    e. Parts vs. Assemblies
    f. Clearances and Tolerances
14. 3ds Max Fundamentals
    a. Introduction to 3ds Max
    b. User Interface
    c. Configuration
    d. Project Files
    e. Data Linking and Merging
    f. Importing
    g. Layer Management
    h. Basic Modeling Techniques
    i. Modeling From 2D Objects
    j. Materials
    k. Creation of Custom Materials with Image Editing Software
    l. Linking
    m. Bones
    n. Reaction Manager
    o. Mapping Coordinates and Scale
    p. Introduction to Lighting
    q. Lighting and Rendering
    r. Mental Ray Rendering
    s. Rendering and Cameras
    t. Animation
15. Non-Linear Video Editing With Premiere
    a. User Interface
    b. Project Management
    c. Importing
    d. Project Bin Organization
    e. Timeline Overview
    f. Transition
    g. Effects
    h. Titles
    i. Rendering Output
    j. Posting Videos on Portfolio Website (On Department Website)

Methods of Instruction

Lecture	Instructor lectures on assigned readings following industry standards and on Autodesk approved courseware.
Observation and Demonstration	Instructor provides computer demonstrations of best practices utilizing the class software for given assignments.
Projects	

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1. 2" binder.
2. An external hard drive.
3. Headphones.

Proposed General Education/Transfer Agreement

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