1. **Catalog Description** (3 credits):

2. **Pre-requisites and Co-requisites**
   Pre-requisites: MAC 1147 Precalculus: Algebra and Trigonometry, or equivalent

3. **Course Objectives**:
   - Familiar with the history of animation and computer animation
   - Understand elemental topics in physics and geometry related to 3D animation
   - Understand the 3D computer animation techniques and algorithms
   - Implement and rendering 3D computer animations using Maya

4. **Instructor**: Dr. Rong Zhang
   Office location: CSE E526
   Telephone: 505-1542
   E-mail address: rzhang@cise.ufl.edu
   Office hours: Monday 1:00 – 3:00 pm or by appointment in CSE 526

5. **Teaching Assistant**: Shaoyo Qi
   E-mail address: sqi@cise.ufl.edu
   Office hours: TBA or by appointment

6. **Meeting Times and Location**:
   MWF period 4 (10:40am – 11:30am) in ARCH 0116

7. **Textbooks and Software Required**
   Required textbook: Mastering Autodesk Maya 2011
   Author: Eric Keller, Todd Palamar, Anthony Honn
   Publisher: Sybex; 1 edition (September 7, 2010)
   ISBN: 0470639350

   Recommended textbook: Learning Autodesk Maya 2012 foundation
   ISBN: 0470900210

   Software: Students do not need to purchase the software. Maya 2009 and 2011 are available in UF CIRCA Lab. Maya 2012 can be downloaded from http://students.autodesk.com/ freely as a student.
8. **Course Outline** -
   There might be a shift in topics depending on the backgrounds or interests of the students.
   - History of animation and computer animation
   - Key framing and fine tune animation curves
   - Hierarchical animation
   - Motion path animation
   - Driven keys
   - Skeletons
   - Forward and Inverse kinematics
   - Skinning and rigging
   - Expression-driven animation
   - Morph targets
   - Rigid-body dynamics
   - Non-linear editing
   - Particle simulation

9. **Attendance and Expectations** –
   Class attendance is required. If for some reason you have to miss a class, you are responsible for getting class notes from a classmate. Make sure to submit your completed work before the due date to avoid a penalty if an assignment is due. Cell phones should be turned off or set to vibrate.

10. **Homework Policies** –
    You may discuss assignments with other students. But you must implement it by yourself. If your work is proven to be copied from another student, 0 points will be given to both students.

    Late assignments will be accepted with a penalty of deduction of 20% of the maximum point value every 12 hours, for up to 2 days. Please plan your final renderings for one to two days in advance.

    You are allowed ONE free late-day that you can use at anytime. Please note that once you have used your late day, no additional extensions will be granted for any reason at all. Please let the TA know you plan to use your late-day in your submission.

11. **Grading Scale** –
    Final grade is calculated according to the following schedule
    - Quizzes: 25%
    - Homework and projects: 50%
    - Final project: 25%
    And the grade scale is:
    - A(100-95), A-(94-90), B+(89-87), B(86-83), B-(82-80), C+(79-77), C(76-73), C-(72-70), D+(69-67), D(66-63), D-(62-60), F(59-0)

12. **Make-up Exam Policy** –
    All students should plan to take their exams at the scheduled times. In the case of sudden or unexpected events that will cause them to miss an exam, students are required to notify the instructor prior to the exam or as early as possible.
Make-up exams are given only in exceptional circumstances with the Instructor’s permission.

13. Honesty Policy –
All students admitted to the University of Florida have signed a statement of academic honesty committing themselves to be honest in all academic work and understanding that failure to comply with this commitment will result in disciplinary action. This statement is a reminder to uphold your obligation as a UF student and to be honest in all work submitted and exams taken in this course and all others.

14. Accommodation for Students with Disabilities –
Students requesting classroom accommodation must first register with the Dean of Students Office. That office will provide the student with documentation that he/she must provide to the course instructor when requesting accommodation.

15. UF Counseling Services –
Resources are available on-campus for students having personal problems or lacking clear career and academic goals. The resources include:
- University Counseling Center, 301 Peabody Hall, 392-1575, Personal and Career Counseling.
- SHCC mental Health, Student Health Care Center, 392-1171, Personal and Counseling.
- Center for Sexual Assault/Abuse Recovery and Education (CARE), Student Health Care Center, 392-1161, sexual assault counseling.
- Career Resource Center, Reitz Union, 392-1601, career development assistance and counseling.

16. Software Use –
All faculty, staff and student of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.