Course Info: Credit Hours: 3
Class Meeting Time: 12-1:15 PM Monday and Wednesday
Location: IT 255, Informatics & Communications Technology Complex
535 West Michigan Street, Indianapolis, IN 46202

Instructor Info: Name: Albert William
Office IT 481
email: almwilli@iupui.edu
Phone 278-9204
Office Hours: by appointment

COURSE DESCRIPTION
This is an advanced course in the production and display of various methods of stereoscopic techniques. Included in the course will be the history of stereoscopic display and use. The major stereoscopic media employed will be discussed and produced including: film stereograms, anaglyph displays, lenticular printing, stereo photography, film and video, active and passive stereo, and computer generated work. Theory and practice of stereoscopic displays will be presented including those listed above and others such as the Virtual Reality, holographic imaging, IMAX and other solutions.

COURSE OUTCOMES
Students will develop insight into the uses and meaning of stereoscopic displays and production. Students will learn to apply that insight to “real-world” challenges and opportunities, which they will define and investigate. Students will participate in the creation of projects that presents a hypothetical but plausible solution to a real-world need. These projects will be presented in formats and will demonstrate a familiarity with key components of any new media solution: content, technology, interface design, and usability.

REQUIRED TEXTBOOK
There is no required text. Students will be required to conduct self-directed research.
The following book is highly recommended:

3D Movie Making by Bernard Mendiburu
  Publisher: Focal Press; Pap/Dvdr edition (May 6, 2009)
  ISBN-10: 0240811372
OTHER MATERIALS RELATED TO THE COURSE

A portable HD is strongly recommended.
A flash drive will be very useful.
Use of IUBox is recommended for file storage.
Writable media such as CDs or DVDs will also be required to turn in some projects.
Students will be required to bring writing materials, whether electronic or traditional, to class.

CORE COMPETENCIES

Students must be able to conduct self-directed research, express and document ideas and themes in both written and spoken form. Expertise in Maya, Photoshop, Premiere, and After Effects will be an important part of this class, and students are responsible for understanding the existence of other technologies and the range of their applications as possibly applied to stereoscopic technologies.

SOFTWARE USED

Autodesk Maya
Adobe Photoshop, Premiere and After Effects

N444 Spring 2014 Class Outline

Please note that this weekly schedule is subject to change.

Week 1 Jan 13    Intro, History of stereo
                 Jan 15    Basic stereo concepts, displays

Week 2 Jan 20   MLK Day- NO CLASS
                 Jan 22    AVL tour

Week 3 Jan 27   CG Theory, production and post production techniques
                 Jan 29    CG Theory, production and post production techniques

Week 4 Feb 3   Project 1 DUE: small CG project; testing and class assessment
                 Feb 5     Jan 30   CG Theory, production and post production techniques

Week 5 Feb 10  Project 2 DUE: small CG project; testing and class assessment
                 Feb 12    2D to 3D conversion

Week 6 Feb 17   2D to 3D conversion
                 Feb 19    Project 3 DUE: 2D to 3D conversion, class assessment

Week 7 Feb 24   2D to 3D conversion, testing
                 Feb 26    Project 4 DUE: 2D to 3D conversion, class assessment

Week 8 Mar 3   Project 5 Quiz, Project 6 DUE: Final Project Proposal
                 Pre-production, storyboards, animatics
                 Mar 5     Pre-production, storyboards, animatics
Week 9 Mar 10 Pre-production, storyboards, animatics
   Mar 12 Project 7 DUE Pre-production Stereo Animatic #1

Week 10 Mar 17 No Class Spring Break
   Mar 19 No Class Spring Break

Week 11 Mar 24 CG Production
   Mar 26 CG Production

Week 12 Mar 31 Project 8 DUE Pre-production Stereo Animatic # 2
   Apr 2 CG Production

Week 13 April 7 CG Production
   April 9 CG Production

Week 14 April 14 Project 9 Beta version of final project Due
   April 16 CG Production

Week 15 April 21 CG Production, Review and revisions
   April 23 CG Production, Review and revisions

Week 16 April 28 Project 10 Final Project Due
   April 30 Review and revisions

Week 17 May 5 Project 11 Final presentations
   May 7 Final presentations

Lab assignments/ homework
   a. Project 1: small CG project #1
   b. Project 2: small CG project #2
   c. Project 3: 2D to 3D conversion
   d. Project 4: 2D to 3D conversion
   e. Project 5: Quiz
   f. Project 6: Final project Proposal
   g. Project 7: Animatic # 1
   h. Project 8: Animatic # 2
   i. Project 9: Beta version of final project
   j. Project 10: Final Project
   k. Project 11: Final Project Presentation
Projects will have the following points (Total 1000 Points)

| Project 1     | 25 points |
| Project 2     | 50 points |
| Project 3     | 25 points |
| Project 4     | 50 points |
| Project 5     | 100 points|
| Project 6     | 50 points |
| Project 7     | 100 points|
| Project 8     | 100 points|
| Project 9     | 50 points |
| Project 10    | 300 points|
| Project 11    | 50 points |
| Attendance    | 100 points|

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Attendance and class participation | 100 | 10 |
Grading Information:
- These factors that will be evaluated in determining grades:
  - Technical competencies
  - Aesthetic appeal
  - Professional production
  - Participation in class discussion and class attendance
  - Lab assignments/ homework

Grading Standards

A – Outstanding, high quality work.
A fully completed project that demonstrates mastery of skills of the course.
Projects that display creative and/or innovative work.
The project excels in areas of design, planning, or technical approach.

B – Good to very good work.
The student completed the components of the project, but neglected to experiment with additional or more challenging technical approaches.
The work demonstrates good abilities in the respective new media applications, but may lack depth and level of skill.
The project could be lacking in areas of design, planning, or technical approach.

C – Average work.
No more than what was required of the course was completed.
The work is possibly incomplete in parts.
The work demonstrates average skills in depth, design, and application.
File formats had errors or were not compatible as expected.

D – Below average work.
The work is largely incomplete and displays a lack of effort.
Very little time was put into the project and resulted in poor quality work.
The files handed in had errors or were not compatible as expected.

F – Failure to complete the objectives of the assignment.

Grade Scale
A+ >100
A  93 – 99.99
A- 90 – 92.99
B+ 87 – 89.99
B  83 – 86.99
B- 80 – 82.99
C+ 77 – 79.99
C  73 – 76.99
C- 70 – 72.99
D+ 67 – 69.99
D  63 – 66.99
D- 60 – 62.99
F  Below 60%
• NO LATE PROJECTS WILL BE ACCEPTED.
• Any project will be assigned a score of 0 (zero) points if not turned in by the deadline.
• Please check Oncourse assignments to determine when your project is due. It is your responsibility to understand due dates.
• Please check OnCourse assignments to determine the proper way to turn in the project due. Most projects will be turned in through the assignment tab on OnCourse, while some others may be turned in on a physical medium.
• Unless otherwise specified, all assignments must be turned in through OnCourse Assignments. In the event that Oncourse is not available, a data CD (or data DVD) with name and assignment number will be accepted. Flash drives are also accepted, but may not be returned. Points will be off taken for improperly labeled media and assignments
  o Example for file: lastName_projectName.fileExtension
  o Example for media: Joan Smith, Class ###, Project ###
• Work may be turned in any time prior to the due date. Work will be considered late if not turned in at the date expected.
• Pop quizzes that are missed will not be allowed to be made up.

OTHER CONSIDERATIONS

• Please come to class on time and be prepared.
• Participation in class discussions, including class critiques and all written papers are required and may be considered in final grading.
• Students will develop and present individual projects unless otherwise approved in writing from the instructor.
• Cell phones, blackberries, iPods, and other devices should be turned off and not used during class time.
• Social sites such as Facebook, Twitter, or any others, may not be accessed during class time.
• Work for other courses may not be done during this class time.
• No student is allowed to leave early without permission of the instructor.
• Laptops should only be used for taking notes, not for running advanced software.
• Food and drink are not allowed in the computer labs.

POLICIES for ATTENDANCE & ASSIGNMENT/PROJECT DEADLINES

1. Missing class WILL impact your grade. Students are allowed two (excused or unexcused) absences before their grade will be effected. Whether you are sick or have personal problems or issues for missing class, it will amount to the same. Missing class means you do not show for the whole or majority of the session. The grade reduction policy works in this way.
   • On the third missed class time your final grade will drop 5 percent (regardless of the reason).
   • On the fourth missed class your final grade will drop 10 percent (regardless of the reason), and 5 additional percentage points thereafter for each additional class missed.
• Responsible for due dates and related materials: All due assignments are each
student’s responsibility. If class is missed, the student is still responsible for the assignment, as well as to find out what was covered in class, e.g., any new assignments or variations to an existing assignment. ALL assignment deadlines are outlined in the syllabus or syllabus supplemental documents provided on OnCourse. Ultimately, each student is responsible for the deadline. Also, weekly assignment deadlines should be adhered to, to insure fairness to all students. For the purpose of maintaining an equal and fair evaluation of each student’s work, no student will receive special treatment.

- Incompletes will NOT be issued except under very extreme personal conditions that have been reviewed by the instructor and in consultation with the Dean’s Office.

**MISSION STATEMENT**

The Mission of IUPUI is to provide for its constituents excellence in

- Teaching and Learning;
- Research, Scholarship, and Creative Activity; and
- Civic Engagement.

With each of these core activities characterized by

- Collaboration within and across disciplines and with the community;
- A commitment to ensuring diversity; and
- Pursuit of best practices.

IUPUI’s mission is derived from and aligned with the principal components—Communities of Learning, Responsibilities of Excellence, Accountability and Best Practices—of Indiana University’s Strategic Directions Charter.

**STATEMENT OF VALUES**

IUPUI values the commitment of students to learning; of faculty to the highest standards of teaching, scholarship, and service; and of staff to the highest standards of service. IUPUI recognizes students as partners in learning. IUPUI values the opportunities afforded by its location in Indiana’s capital city and is committed to serving the needs of its community. Thus, IUPUI students, faculty, and staff are involved in the community, both to provide educational programs and patient care and to apply learning to community needs through service. As a leader in fostering collaborative relationships, IUPUI values collegiality, cooperation, creativity, innovation, and entrepreneurship as well as honesty, integrity, and support for open inquiry and dissemination of findings. IUPUI is committed to the personal and professional development of its students, faculty, and staff and to continuous improvement of its programs and services.

**CODE OF CONDUCT**

All students should aspire to the highest standards of academic integrity. Using another student’s work on an assignment, cheating on a test, not quoting or citing references correctly, or any other form of dishonesty or plagiarism shall result in a grade of zero on the item and possibly an F in the course. Incidences of academic misconduct shall be referred to the Department Chair and repeated violations shall result in dismissal from the program.

All students are responsible for reading, understanding, and applying the *Code of Student Rights, Responsibilities and Conduct* and in particular the section on academic misconduct. Refer to *The Code > Responsibilities > Academic Misconduct* at [http://www.indiana.edu/~code/](http://www.indiana.edu/~code/). All students must also successfully complete the Indiana University Department of Education “How to Recognize Plagiarism” Tutorial and Test. [https://www.indiana.edu/~istd](https://www.indiana.edu/~istd) You must document the difference between your writing
and that of others. Use quotation marks in addition to a citation, page number, and reference whenever writing someone else’s words (e.g., following the Publication Manual of the American Psychological Association). To detect plagiarism instructors apply a range of methods, including Turnitin.com. http://www.ulib.iupui.edu/libinfo/turnitin

Academic Misconduct:

1. **Cheating:** Cheating is considered to be an attempt to use or provide unauthorized assistance, materials, information, or study aids in any form and in any academic exercise or environment.
   a. A student must not use external assistance on any “in-class” or “take-home” examination, unless the instructor specifically has authorized external assistance. This prohibition includes, but is not limited to, the use of tutors, books, notes, calculators, computers, and wireless communication devices.
   b. A student must not use another person as a substitute in the taking of an examination or quiz, nor allow other persons to conduct research or to prepare work, without advanced authorization from the instructor to whom the work is being submitted.
   c. A student must not use materials from a commercial term paper company, files of papers prepared by other persons, or submit documents found on the Internet.
   d. A student must not collaborate with other persons on a particular project and submit a copy of a written report that is represented explicitly or implicitly as the student’s individual work.
   e. A student must not use any unauthorized assistance in a laboratory, at a computer terminal, or on fieldwork.
   f. A student must not steal examinations or other course materials, including but not limited to, physical copies and photographic or electronic images.
   g. A student must not submit substantial portions of the same academic work for credit or honors more than once without permission of the instructor or program to whom the work is being submitted.
   h. A student must not, without authorization, alter a grade or score in any way, nor alter answers on a returned exam or assignment for credit.

2. **Fabrication:** A student must not falsify or invent any information or data in an academic exercise including, but not limited to, records or reports, laboratory results, and citation to the sources of information.

3. **Plagiarism:** Plagiarism is defined as presenting someone else’s work, including the work of other students, as one’s own. Any ideas or materials taken from another source for either written or oral use must be fully acknowledged, unless the information is common knowledge. What is considered “common knowledge” may differ from course to course.
   a. A student must not adopt or reproduce ideas, opinions, theories, formulas, graphics, or pictures of another person without acknowledgment.
   b. A student must give credit to the originality of others and acknowledge indebtedness whenever:
      1. directly quoting another person’s actual words, whether oral or written;
      2. using another person’s ideas, opinions, or theories;
      3. paraphrasing the words, ideas, opinions, or theories of others, whether oral or written;
      4. borrowing facts, statistics, or illustrative material; or
      5. offering materials assembled or collected by others in the form of projects or collections without acknowledgment

4. **Interference:** A student must not steal, change, destroy, or impede another student’s work, nor should the student unjustly attempt, through a bribe, a promise of favors or threats, to affect any student’s grade or the evaluation of academic performance. Impeding another student’s work includes, but is not limited to, the theft, defacement, or mutilation of resources so as to deprive others of the information they contain.
5. **Violation of Course Rules:** A student must not violate course rules established by a department, the course syllabus, verbal or written instructions, or the course materials that are rationally related to the content of the course or to the enhancement of the learning process in the course.

6. **Facilitating Academic Dishonesty:** A student must not intentionally or knowingly help or attempt to help another student to commit an act of academic misconduct, nor allow another student to use his or her work or resources to commit an act of misconduct.

**OTHER POLICIES**

1. **IUPUI course policies:** A number of campus policies governing IUPUI courses may be found at the following link: [http://registrar.iupui.edu/course_policies.html](http://registrar.iupui.edu/course_policies.html)

2. **Classroom civility:** To maintain an effective and inclusive learning environment, it is important to be an attentive and respectful participant in lectures, discussions, group work, and other classroom exercises. Thus, unnecessary disruptions should be avoided, such as ringing cell phones engagement in private conversations and other unrelated activities. Texting, surfing the Internet, and posting to Facebook or Twitter during class are generally not permitted. IUPUI nurtures and promotes “a campus climate that seeks, values, and cultivates diversity in all of its forms and that provides conditions necessary for all campus community members to feel welcomed, supported, included, and valued” (IUPUI Strategic Initiative 9). IUPUI prohibits “discrimination against anyone for reasons of race, color, religion, national origin, sex, sexual orientation, marital status, age, disability, or [veteran] status” (Office of Equal Opportunity). Profanity or derogatory comments about the instructor, fellow students, invited speakers or other classroom visitors, or any members of the campus community shall not be tolerated. A violation of this rule shall result in a warning and, if the offense continues, possible disciplinary action.

3. **Bringing children to class:** To ensure an effective learning environment, children are not permitted to attend class with their parents, guardians, or childcare providers.

4. **Disabilities Policy:** In compliance with the Americans with Disabilities Act (ADA), all qualified students enrolled in this course are entitled to reasonable accommodations. Please notify the instructor during the first week of class of accommodations needed for the course. Students requiring accommodations because of a disability must register with Adaptive Educational Services (AES) and complete the appropriate AES-issued before receiving accommodations. The AES office is located at UC 100, Taylor Hall (Email: aes@iupui.edu, Tel. 317 274-3241). Visit [http://aes.iupui.edu](http://aes.iupui.edu) for more information.

5. **Administrative Withdrawal:** A basic requirement of this course is that students participate in all class discussions and conscientiously complete all required course activities and/or assignments. If a student is unable to attend, participate in, or complete an assignment on time, it is the student’s responsibility to inform the instructor. If a student misses more than half of the required activities within the first 25% of the course without contacting the instructor, the student may be administratively withdrawn from this course. Administrative withdrawal may have academic, financial, and financial aid implications. Administrative withdrawal will take place after the full refund period, and a student who has been administratively withdrawn from a course is ineligible for a tuition refund. Contact the instructor with questions concerning administrative withdrawal.