**URP 4221 FAU • School of Urban and Regional Planning**

**GIS and Advanced Visual Planning Technologies**

**Credit Hours (3)  
Prerequisite: URP 4254, minimum grade C**

**Fall 2018**

**Instructor:**  **Michael Stamm Jr.**

Email: mstamm@fau.edu

Office hours: Friday 9am to 10am, Room SO 371 or SO 276

Contact Information: [mstamm@ppines.com](mailto:mstamm@ppines.com) • 954-392-2100 (Emergency only)

Location/ Time: SO 276 Friday 10am to 1250pm

# Lectures and Labs

# Course Description This course focuses on using software to analyze with urban planning and development scenarios. Topics include data sources, map design, visualization techniques, presentation techniques, and real-world planning activities. Students will become proficient with ArcGIS, Trimble SketchUp, Microsoft, Adobe and other software packages and apply these to planning scenarios.

# Course objectives

At the conclusion of the semester, students should:

* Have a general understanding of the different forms of technology used in the field of Urban and Regional Planning.
* Effectively communicate concepts through the use of visuals.
* Be able to make clear and effective presentations.
* Be able to use various programs to create more effective graphics, visuals and plans.
* Understand terminology, extensions, and associated files for various programs.
* Be able to identify data sources for programs.
* Understand and apply municipal code through the utilization of visuals.
* Understand a computer network as it pertains to GIS and basic file locations.
* Be able to navigate and utilize computer programs typically used in the field of Planning (ArcGIS, Trimble Sketch Up, Adobe Pro, Microsoft Office and Google Earth).

# Time Commitment

This is a 3 credit-hour course; expect to make a time commitment of 3-5 hours outside class time, *on average* per week.

# Required Reading / Text Book

A ***16-32 gigabit*** flash drive is **required** as a back-up for network computer folders. No text book required however, I recommend: *Getting to Know ArcGIS Desktop*, Tim Ormbsby, Eileen Napoleon, Robert Burke, Laura Feaster and Carolyn Groessl and Tal,Daniel 2016, *Sketchup for Site Design A guide to modeling site plans, terrain and architecture 2nd Edition*, John Wiley and Sons Inc, New Jersey.

# Blackboard

This interactive online course management tool provides a resource to distribute course content, class presentations and more. All students are expected to use this resource on a regular basis for course materials and announcements. Blackboard can be accessed from anywhere with an Internet connection. **All students who are officially registered in the course are automatically enrolled in the Blackboard class website**. Instructor will be tracking student use of Blackboard class website. Blackboard Academic Gateway: http://blackboard.fau.edu

**Accessibility Policy Statement**

In compliance with the Americans with Disabilities Act (ADA), students who require special accommodations to properly execute coursework due to a disability, must register with Student Accessibility Services (SAS) located in the Boca Raton, Davie, and Jupiter campuses and follow all SAS procedures. For additional information, please see: <http://www.fau.edu/sas/>

Questions relating to academic accommodations for students with disabilities are to be directed to Students Accessibility Services, Boca Raton campus, Room 133, (561) 297-3880, TDD (561) 297-0358.

Please let me know by third week of class if you qualify for an accommodation.

**Code of Academic Integrity Policy Statement**

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the University mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see [University Regulation 4.001](http://www.fau.edu/regulations/chapter4/4.001_Code_of_Academic_Integrity.pdf).

[Plagiarism](http://libguides.fau.edu/c.php?g=325629&p=2352760) is unacceptable in the University community. Academic work that is submitted by students is assumed to be the result of their own thought, research, or self-expression. When students borrow ideas, wording, or organization from another source, they are expected to acknowledge that fact in an appropriate manner. Plagiarism is the deliberate use and appropriation of another's work without identifying the source and trying to pass off such work as one’s own. Any student who fails to give full credit for ideas or materials taken from another has plagiarized. This includes all Canvas Forum posts, journal entries, wikis, and other written and oral presentation assignments. If in doubt, cite your source!

**Plagiarism:** Always make sure to cite your sources. Lab assignments and exams should be done independently. Plagiarism is unacceptable and you are subject to failing the course.

**Classroom Etiquette/Disruptive Behavior Policy Statement**

Disruptive behavior is defined in the FAU Student Code of Conduct as *“... activities which interfere with the educational mission within classroom.”* Students who behave in the face-to-face and/or virtual classroom such that the educational experiences of other students and/or the instructor’s course objectives are disrupted are subject to disciplinary action. Such behavior impedes students’ ability to learn or an instructor’s ability to teach. Disruptive behavior may include, but is not limited to: non-approved use of electronic devices (including cellular telephones); cursing or shouting at others in such a way as to be disruptive; or, other violations of an instructor’s expectations for classroom conduct.

For more information, please see the FAU Office of Student Conduct <http://www.fau.edu/studentconduct/>

**On guest speakers:** The instructor is arranging guest speakers from the public and private sectors to discuss the importance of visualization. Students are expected to act responsibly and professionally. The syllabus may be adjusted due to speaker’s availability.

# Grade Scale

|  |
| --- |
| A 94 and higher  A- 90 - 93  B+ 87 - 89 B 84 - 86 B- 80 - 83  C+ 77 - 79 C 74 - 76 C- 70 - 73  D 60-69  F less than 60 |

Failure to complete any part of the course will result in an F. **It is your responsibility to be familiar with, and abide by, Section 6C5-4.001 of the Florida Statutes** (Honor Code, Academic Irregularities, and Academic Grievances). Committing any kind of academic irregularity will result in an F for the course and a notification to the registrar's office.

# Evaluation/Grading

Student performance will be evaluated on the basis of successful completion of assignments, participation, and attendance. The grades will be calculated as follows:

1. Projects (35 Points)

# Parcel Project (25 Points)

Research (10)

Maps/Visuals (05)

Presentation (05)

Format/Final Document (05)

**Public Meeting Project (10 Points)** Memo, Agenda, Notes, Site Photos (10)

1. Class Participation (25 Points)

In the News/Article/Presentation/Memo (05)

Readings/Memo (5) (10)

Attendance (05)

Class Discussions (05)

1. Exercises (10 – 7 GIS and 3 SketchUp) (20 Points)
2. Exams

Midterm Exam (10 Points)

Final Exam (10 Points)

**Policies on Late Work**

**On disabled lab accounts:** Disabling of computer lab accounts due to violation of lab rules will not be accepted as an excuse for non-completion of exercises and assignments.

**On late assignments:** Late assignments will only be accepted up to 2 weeks after due date. Late assignments will be downgraded by 10% unless there is a medical or family emergency.

# 1. Project - Parcel (25 Points)

Each student will be assigned a parcel of land within the City of Pembroke Pines. Students will receive the folio number for the property and be required to create a document and presentation that will incorporate pertinent information about the parcel such as land use, zoning, proximity to education facilities, adjacent homeowners associations, etc. During this project, the student will be required to use multiple sources for gathering information about the parcel. However students will not contact Pines City Hall for files or documents.

Once all the research is gathered, a document will be created using publishing software, the document including text, maps, tables, charts and other research pertaining to the parcel. Students will present their findings to the class in the form of a presentation utilizing PowerPoint as well as other visuals. This project will begin on the first night of class and continue throughout the semester. The final document should be submitted in electronically as a PDF binder with all appropriate bookmarks and support documents. The objective of this project is to incorporate all of the tools learned in this course into a professional document.

The presentation should be between 3-4 minutes. The final document will include a cover page, outline, analysis, maps, images, renderings, and the PowerPoint Presentation with notes and presentation outline. The file will be saved in u/*student*/projects. File Name: ParcelProject\_*StudentLastName..*

# 1. Project - Public Meeting (10 Points)

Each student will be required to attend a public meeting to evaluate the types of visuals used at the meeting.

The following types of meetings will be allowed with the approval of the instructor: Commission/Council, Planning and Zoning Board, or Architectural Review Board. Other meetings may be approved by the instructor.

Students will research when the Board meets and obtain the agenda for the meeting, and choose two items from the agenda to observe such as a site plan, zoning change or land use plan amendment (Instructor Approval required). The students will respectfully observe the meeting and evaluate the speaker’s ability to influence the Board. The students will use an instructor provided observation checklist.

Students will write a two to three-page memo discussing the outcomes and observations from the public meeting. The paper will be submitted electronically in PDF format in the U/*student*/projects folder. The student will also visually document the meeting by taking photos and inserting the images in the document.

The final submittal will be a memo addressed to the instructor that will include a description of the projects observed, a copy of the agenda, a list of the type of visuals used by the presenters, the decision of the board, and comparisons of the two items observed at the meeting. The memo will be submitted with the agenda, observations notes, and site photos as one PDF binder. File name: PublicMeetingMemo\_*StudentLas*tName.*.*

# 2. Class Participation (24 Points)

Each class will begin with the In the News segment. Students will bring in news or magazine article(s) related to Planning, GIS or Visualization to class on their assigned date. Be prepared to provide a brief synopsis of the article (2-3 minutes) and discuss typical visuals that a planner may use related to the article, PowerPoint is required for these presentations. Class discussion will follow. Articles should be retrieved from newspapers, journals and/or professional websites. Students will turn in a one page review of the article in memo format. The copy will include the title, article, major concept, your opinion of the article and list of visuals that would be or are used in the article. The PDF binder includes the memo, the article, the presentation with notes, and the outline all combined into one PDF document with bookmarks. The document will be saved in the U/*student*/projects as IntheNews\_*StudentLas*tName.*.*

Students will review the assigned readings (5) and create a maximum two page summary in memo format.

Students should be prepared to discuss the readings in class. The memo will be submitted in PDF format. U/*studen*t/readings as Reading#\_\_*StudentLas*tName. **Due Various Dates.**

Students will evaluate class speakers/presentations and provide written feedback to the instructor and speaker. In addition to the articles, students are encouraged to actively participate in class discussions. Students will participate in class discussions, and complete work in class as a group with assistance from the instructor. Students will also earn points for in class discussions and overall participation.

# Attendance Policy

Students get points each week for attending class. Any student who misses more than 3 classes will automatically lose an additional 1 points from attendance. Any student late 3 or more times will automatically lose 1 point from attendance. Late is defined as ½ hour or more. If you are late and students are presenting please wait until the student has completed their presentation before entering. Please contact the instructor via email to report any expected absences or tardiness.

# 3. Exercises (20 Points) (2 Points Per Exercise)

Students will complete exercises in GIS (7) and SketchUp (3) in conjunction with course work. The exercises will mirror lectures and completed by students independently. **Due Various Dates**

# 4. Exams (20 Points)

Students will be tested on visualization terminology, symbols, icons and the ability to create maps and visuals. Questions will be short answer, true & false and multiple-choice. Exams will require students to use the programs taught in class. Make up exams will be done at the leisure of the instructor.

# FALL 2018

**URP 4221 Advanced Visual Planning Technology**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **WEEK** | **TOPIC** | **PRESENTATIONS** | **ASSIGNMENT DUE** | **HOMEWORK** |  |
| 1 | 1. Introduction 2. Class Projects | 1 Intro |  | 1. Public Meeting Dates 2. Network Access |
| 2 | 1. Network Folders 2. Lab Policies 3. PowerPoint for Planners 4. Adobe Professional |  |  | 1 Reading #1 |
| 3 | 1. What is Visualization 2. Folio Assignments 3. Intro to GIS 4. Exercise #1 | 1. In the News: 2. In the News: 3. In the News: | **1 Reading Summary #1** | 1 Reading #2 |
| 4 | 1. Intro to GIS Continued 2. GIS- Map Layouts   2 Exercise #2 | 1. In the News: 2. In the News: 3. In the News: 4. In the News: | **1 Reading Summary #2** | 1 Reading #3 2 Parcel Site Visit |
| 5 | 1. Intro to GIS Continued 2. GIS - Data 3. Exercise #3 and 4 | 1 In the News:  2 In the News:  3 In the News:  4 In the News: | **1 Reading Summary #3** | 1. Parcel Site Visit 2. Reading #4 |
| 6 | 1. Intro to GIS Continued 2. GIS - Symbology and Labeling 3. Mid Term Prep 4. Exercise #5 and 6 | 1. In the News: 2. In the News: 3. In the News: 4. In the News: | **1 Reading Summary #4** | 1. STUDY MID TERM 2. Parcel Site Visit |
| 7 | 1. **MID TERM EXAM** 2. Intro to GIS Continued 3. GIS - Analysis Tools and Queries   3 Exercise #7 |  | 1 **MID TERM EXAM** | 1. In the News PDF Binder 2. Parcel Conceptual Site Plan Sketch 3. Reading #5 |
| 8 | 1. Intro to SketchUp 2. Sketch Up - Tools and Functions 3. Exercise #8 | 1. In the News: 2. In the News: 3. In the News: 4. In the News: | 1. **In the News Binder ALL** 2. **Reading #5 Summary** | 1. SketchUp Videos 2. Public Meeting Paper 3. Parcel Conceptual Site Plan Sketch |
| 9 | 1. Intro to SketchUp 2. Sketch Up - Site Design 3. Exercise #9 | 1 In the News:  2 In the News:  3 In the News: | **1 Public Meeting Paper (PDF)** |  |  |
| 10 | 1. Intro to SketchUp 2. Sketch Up - Elevations and 3D 3. Exercise # 10 4. Final Exam Prep |  |  | 1. Parcel Project PowerPoint |  |
| 11 | 1 Parcel Presentations |  | 1 **Peer Evaluations (All)** | 1. Study: Final Exam  2 Parcel Project Paper Due Next Class |
| 12 | 1. FINAL EXAM 2. Class Final Submissions |  | 1. **Final Parcel Paper (PDF)** 2. **Final Class Folders Due** |  |