

SYLLABUS FALL 2014
CSCI 595 – Research Lit & Techniques , Spring 2014

Instructor: Dr. Nikolay Metodiev Sirakov
Department of Computer Science and Information Systems
Department of Mathematics, TAMU-Commerce
Day and Time: W 4:30p-7:10p **Room:** EDS127
Meets 1/13/2014 through 5/9/2014

Instructor: Dr. Nikolay Metodiev Sirakov **Office:** Binnion 322
Office Hours: M 10AM-12:30PM **E-mail:** Nikolay.Sirakov@tamuc.edu
F 10AM- 12:30AM **Office Phone:** 903 886 5943
Additional by appointment

COURSE DESCRIPTION

Text: No textbook is required

Course Content: Literature survey, scientific papers, methods and algorithms, software development on methods, implementation, experiments, validation, reports, and presentation

Main Objective: A course designed to acquaint the student with the role of research in the initiation, development and modification of concepts and theories in computer science. A final written report and presentation and/or demonstration of results obtained during the course will be made to interested faculty members and students.

Prerequisites: Completion of the required core courses.

COURSE OBJECTIVES

- To learn theoretical methods, concept, and break the methods to algorithms, design of software and systems projects,
- To learn how to write report on project practice and present the obtained results.

STUDENT LEARNING OUTCOMES (SLO)

- To clearly understand the theoretical fundamentals, project management and documentation
- To understand the fundamentals of software development lifecycles
- To develop a software product and validate the projects with experiments

COURSE EVALUATION Basis for Evaluation:

Midterm Project Documentation and Presentation	10%
Midterm Exam on the project advancement	25%
Final Project Documentation and Presentation	40%
Revision of the project	10%
Final Exam - presentation	15%

Grading Policy: **A:** 100%- 90%
B: 89% - 80%
C: 79% - 70%
D: 69% - 60%
F: Less than 59 %

TOPICS/ACTIVITIES BY WEEKS

WEEK	TOPIC
1-3	How to perform Literature Survey; Main components and sections of a project; Presentation of the obtained results; Project selection

4-6	Methods: Hit and Miss method for matching; Ciratefi method for scale and rotational invariant matching; Active Contours for automatic segmentation; Tracking in video
6-7	Midterm Project Presentation- submission; Midterm Exam
7-10	Design and documentation for feed-back
10-12	Project implementation, testing, and documentation
13	Final Project Presentations
14-15	Final Project Presentation, Final Documents, and Final Exam

The professor reserves the rights to reward students for continuous hard work or for an exceptional novel scientific work (as judged by the instructor) relevant to the topics covered.

The programs will be submitted in an electronic form, experiments to validate the software will be presented in the report, the reports will be submitted in electronic and hard copy.

Final Test Section: 595.001	Date: TBA	Time: TBA
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COURSE POLICIES

Tests: *Students will be informed of the presentation and exam dates around a week in advance. No opportunity will be given to take the tests or do the presentations at earlier or later times except in extreme cases as judged by the instructor.*

Makeup: *Except extreme cases (as judged by the instructor), no individual makeup test will be allowed.*

Attendance:

"Students are expected to be present for all class meetings of any course for which they are enrolled. Per University Procedure A13.02, effective September 1, 1996, students are responsible for learning about and complying with the attendance policy stated in the catalog, Student's Guidebook, and/or faculty syllabus. It is the prerogative of the faculty to drop students from courses in which they have accrued excessive absences as defined in the course syllabus."

Student Handbook

After a students' third absence, the professor may drop the student from the course. If this is not possible then the final grade for the course will become an automatic **F**. Lateness and leaving class early may count as an absence and are not acceptable unless you are ill or a family emergency exists. If you miss a class, it is your responsibility to obtain notes from a fellow student. Office hours are not meant for individual lectures. Any class material missed by the student is the student's responsibility to acquire.

Academic Dishonesty:

Academic integrity is the pursuit of scholarly activity free from fraud and deception and is an educational objective of this institution. Academic dishonesty includes, but is not limited to, **cheating, plagiarizing**, fabricating of information or citations, facilitating acts of academic dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. If you are caught in an academic dishonesty situation on **any** course work, you will be given a grade of **F** for the course and referred to the Dean of Students for further disciplinary action.

"All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment." (See **Student's Guide Handbook, Polices and Procedures, Conduct**).

Withdrawal Policy:

There are deadlines for withdrawing from this course. It is the student's responsibility to follow these deadlines.

Students with Disabilities: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact: **Office of Student Disability Resources and Services, Texas A&M University-Commerce, Gee Library, Room 132, Phone (903) 886-5150 or (903) 886-5835, Fax (903) 468-8148, StudentDisabilityServices@tamuc.edu**

The professor may make supplementary information for the course available online. These include class notes, assignments, PowerPoint slides, class announcements, the course syllabus, test dates, etc. The professor will announce in class when such information becomes available electronically. It is the student's responsibility to follow these announcements.

The professor receives the right to modify the course policy within the semester if need arises. **Some changes are likely within the first few weeks.**

For research assistance, please contact:
Reference Librarian: Sciences & Collection Development
903-886-5728

If a student would like to succeed in this class he/she has to study, and work in a thorough fashion to obtain correct results and submit report describing his/her achievements.