SYLLABUS
PROGRAMMING I (PASCAL) – CSCE 110 - SECTIONS 501-506
FALL 2009

COURSE WEBSITE
http://csdl.tamu.edu/~michael/pascal

LECTURE INFORMATION
Time: TR 3:55 PM – 5:10 PM
Location: HRBB 124

LAB INFORMATION

<table>
<thead>
<tr>
<th>Section</th>
<th>Lab Time</th>
<th>Location</th>
<th>Teaching Assistant (TA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>501</td>
<td>MW 8:00 AM – 8:50 AM</td>
<td>RDMC 111H</td>
<td>TBA</td>
</tr>
<tr>
<td>502</td>
<td>MW 11:30 AM – 12:20 PM</td>
<td>RDMC 111A</td>
<td>TBA</td>
</tr>
<tr>
<td>503</td>
<td>MW 1:50 PM – 2:40 PM</td>
<td>RDMC 111H</td>
<td>TBA</td>
</tr>
<tr>
<td>504</td>
<td>TR 12:45 PM – 1:35 PM</td>
<td>RDMC 111A</td>
<td>TBA</td>
</tr>
<tr>
<td>505</td>
<td>TR 8:00 AM – 8:50 AM</td>
<td>RDMC 111H</td>
<td>TBA</td>
</tr>
<tr>
<td>506</td>
<td>TR 2:20 PM – 3:10 PM</td>
<td>RDMC 111H</td>
<td>TBA</td>
</tr>
</tbody>
</table>

INSTRUCTOR
J. Michael Moore, PhD
Office: HRBB 402B
Email: jmichael [at] cse.tamu.edu
Phone: 979-845-0298
Tentative Office Hours: TR 5:20 – 5:50 PM, F 9:00 – 10:00 AM & By Appointment

Note - Outside of office hours and appointments,
I may not be able to see you even if I am in my office.
http://csdl.tamu.edu/~michael/

COURSE DESCRIPTION
Basic concepts, nomenclature and historical perspective of computers and computing; internal representation of data; software design principles and practices; structured programming in Pascal; use of terminals, operation of editors and execution of student-written programs.

REQUIRED TEXT

PREREQUISITES
None

COMMUNICATION
You may also take advantage of the discussion board on Vista to talk with your classmates (http://elearning.tamu.edu).
Announcements will be posted on the course web site and/or Vista. We will also send email to Texas A&M’s official class mailing lists.
Grading Policy

Your grades can be checked on Vista (http://elearning.tamu.edu).

Exams – 45%

There will be three exams and a comprehensive final exam.

Tentative Exam Schedule

<table>
<thead>
<tr>
<th>Exam</th>
<th>Date/Time</th>
<th>Extra Credit Due By</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Thursday, 29 October 2009, 3:55 – 5:10 PM</td>
<td>Sunday, 6 December 2009, 11:59 PM</td>
</tr>
<tr>
<td>3</td>
<td>Thursday, 3 December 2009, 3:55 – 5:10 PM</td>
<td>Not available</td>
</tr>
<tr>
<td>Final</td>
<td>Tuesday, 15 December 2009, 1:00 – 3:00 PM</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Extra Credit

Computer Science encompasses more than just programming. Programming is the tool used to implement ideas at a much higher level. You can get extra credit for Exams 1 and 2 in the class by attending a seminar and writing a report. You will get up to 10 points added to Exam 1 & Exam 2 for each extra credit report depending on the quality of the submission. You can only submit one extra credit report for each exam. You may submit the extra credit prior to taking the exam.

Seminars should be related to research in computer science or scholarly research into computer science's impact on other disciplines (approaches and observations).

Seminars that do not require prior approval:
- http://www.cs.tamu.edu/research/seminars
  (excluding orientation and TAMU system process seminars)
- http://glasscock.tamu.edu/Programs_Activities/digitalhumanitieslectures.htm

Many disciples incorporate computer science in their research. If you find another seminar you think is appropriate, ask the instructor for approval prior to attending the seminar. (Include enough information for the instructor to evaluate the appropriateness of the seminar.)

Your extra credit reports should be your own work. The extra credit report must include:
- Seminar Title
- Presenter's name and credentials
- Time and Date of the seminar
- Location of the seminar
- A summary of information and discussion from the seminar (~100 words)
- A discussion relating the information garnered from the seminar to something that was not discussed or presented at the seminar. (~100 to ~200 words)
- Citations for any reference materials (books, websites, people, etc.) that you used to help you understand the seminar sufficiently to prepare the extra credit report
- Aggie Honor Code Pledge

The reports should be well written and edited and must be submitted through Vista (http://elearning.tamu.edu). Reports must be submitted within 2 weeks after attending the seminar. This helps you to not forget the information before writing the report.

Lab Assignments – 40%

Lab assignments give you hands on experience using PASCAL and/or computing resources. Lab assignments will be given weights according to difficulty and time needed to complete the assignment. Your total programming grade will be a weighted average of the labs assigned. Lab assignments along with specifications and due dates will be posted on the course web site.

Lab assignments represent your individual work adhering to the specifications given for the lab assignment. You are expected to write your own code from beginning to end. However, it is alright (and encouraged) to discuss programming strategy or technique. It is also acceptable for one student to help another student debug their code. If code from multiple students is determined to be essentially identical, grades of zero will be given for all students involved.
Lab assignments must be submitted on or before the due date/time. Late lab assignments are accepted up to seven days late (includes weekends). For the first two days, there is a 10% penalty for each day late. For the remaining days, there is a 15% penalty for each day late. Direct permission of the instructor is required to submit any assignment for grading after that period. When submitting a late assignment, you must email your TA to let him know there is a late lab assignment for them to grade.

The assignment itself is submitted electronically through Vista (http://elearning.tamu.edu). Note that when submitting a Pascal program, you should submit the source code (i.e. not the executable file). All submissions must include your name, section number, and UIN. It is recommended that you double check what you uploaded to submit to ensure you did not inadvertently upload the wrong document.

TA’s will randomly ask students to schedule a time to discuss their lab submissions to verify that students understand the code that they submit. Not understanding your code is an indication of academic misconduct, so when this is identified Honor System Processes will be initiated. If you are unable to schedule an amenable time with your TA, the TA will refer you to the instructor.

**Homework — 0%**

Homework supplements your learning and gives you more exposure to the concepts covered. Due dates are set to help you plan the completion of homework and to help prevent you from falling behind on course information. Homework is not collected or graded, but will help you prepare for quizzes, programming assignments and exams.

**Quizzes — 15%**

Given approximately once a week and announced in advance. The material covered in quizzes is based on material covered in lecture and in the book (e.g. homework). Your four lowest quiz grades will be dropped. You may refer to hard copies of your book, notes, and homework (i.e. you cannot use a computing device during quizzes). If you show up to class on a quiz day more than 15 minutes late, you will not be allowed to take the quiz unless arrangements were made with the instructor in advance.

**Grading Scale**

<table>
<thead>
<tr>
<th>%</th>
<th>Grade</th>
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<tbody>
<tr>
<td>90% – 100%</td>
<td>A</td>
</tr>
<tr>
<td>80% – 89%</td>
<td>B</td>
</tr>
<tr>
<td>70% – 79%</td>
<td>C</td>
</tr>
<tr>
<td>60% – 69%</td>
<td>D</td>
</tr>
<tr>
<td>59% and lower</td>
<td>F</td>
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**Attendance**

Students are strongly encouraged to attend all lectures and labs to stay informed of course content (http://student-rules.tamu.edu/search/rule7.htm). Visibly attending class so that the instructor and TAs know that you are there could positively influence your course grade at the end of the semester. It is distracting when students come into class late or leave early. You should arrive in class on time and stay for the entire class. Otherwise, be polite and don’t attend for that day. If you show up extremely late for class, e.g. more than 15 minutes late, you can be denied entry into the class. If you know in advance that you will be excessively late or need to leave early, you should talk to your instructor in advance and get permission to arrive late or leave early.

Make up exams will only be given for University Excused Absences (http://student-rules.tamu.edu/search/rule7.htm) and arrangements must be made with the instructor prior to the exam or quiz date when known in advance. Make up exams must be taken within seven days of the date the exam was given.

Since you can drop four quizzes, the first four quizzes you miss will be the four quizzes that you drop. If you have missed more than four quizzes and need to make up quizzes, you must provide a University Excused Absence for all quizzes that you missed (note: this includes the first four quizzes). Once this documentation is provided, then you may take the make up quiz. Make up quizzes must be taken within seven days of the date the quiz was given.
Lab assignments are due on their due date. Since lab assignments are frequently done over extended periods of time, extensions to due dates may not be granted even with an excused absence. All extensions must be granted by the course instructor.

**ACADEMIC INTEGRITY**

**Aggie Honor Code**

“An Aggie does not lie, cheat, or steal or tolerate those who do.”

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System.

For additional information please visit: [http://www.tamu.edu/aggiehonor/](http://www.tamu.edu/aggiehonor/)

**Pledge**

“On my honor, as an Aggie, I have neither given nor received unauthorized aid on this academic work.”

You include the pledge with all assignments, quizzes, exams, and extra credit reports. When hard copies are submitted, you will sign it as well (e.g. quizzes and exams).

**ACADEMIC MISCONDUCT**

You should review Texas A&M’s “Definitions of Academic Misconduct” at [http://aggiehonor.tamu.edu/Student%20Rules/definitions.html](http://aggiehonor.tamu.edu/Student%20Rules/definitions.html). When academic misconduct is identified or suspected, Aggie Honor Code Processes will be initiated.

**AMERICANS WITH DISABILITIES ACT (ADA) POLICY STATEMENT**

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 believe you have a disability requiring an accommodation, please contact the [Department of Disability Services](http://www.tamu.edu/disabilityservices), in Cain Hall or call 845-1637.

**Course Topics**

I. Introduction to Computer Science
   - Introduction to Computers
     - Organization Structure
     - Number Representations

II. Introduction to Computers
    - Structure
    - Number Representations

III. Program Development
    - Data Types
    - Arithmetic Operators & Predefined functions
    - Assignment
    - Input/Output (I/O)
    - Program Composition

IV. Pascal Programming
    - Data Types
    - Arithmetic Operators & Predefined functions
    - Assignment
    - Input/Output (I/O)
    - Program Composition

V. Structured Programming
   - Sequence
   - Selection (IF)
   - Repetition (WHILE)

VI. Modular Design
    - Procedures
    - Functions
    - Parameters
    - Scope

VII. Text Files
     - Reading
     - Writing

VIII. Selection & Repetition Expanded
      - CASE
      - FOR
      - REPEAT-UNTIL
      - Recursion

IX. Programmer Defined Data Types
    - ENUMERATED
    - SUBRANGE

X. One Dimensional Arrays
   - Sorting
   - Analysis

XI. Strings

XII. Multi Dimensional Arrays

XIII. RECORDS