PHYS 4330 – Mathematical Methods for Physicists  
PENS Department and the Texas Physics Consortium  
Spring 2015

A. COURSE INFORMATION  
Course number/section: PHYS 4330  
Class meeting time: MWF 1:00 – 1:50  
Class location: CCH-252, TTVN Video Classroom  
Course Website: [http://wtclass.wtamu.edu/](http://wtclass.wtamu.edu/)

B. INSTRUCTOR INFORMATION  
Instructor: [TBD]  
Office location: Tarleton State University  
Office hours: [TBD]  
Telephone: [TBD]  
e-mail: [TBD]  
Appointments: [TBD]

Local Facilitator: Jeffery Spirko  
Office location: NRC-1111 (inside NRC-1100 suite, near the Texas Spill Control School)  
Office hours: [TBD]  
Telephone: 361-825-6020  
e-mail: jeffery.spirko@tamucc.edu  
Appointments: Please Email to schedule an appointment outside office hours.

C. COURSE DESCRIPTION  
Catalog Course Description  
Mathematical techniques from the following areas: infinite series; integral transforming; applications of complex variables; vectors, matrices, and tensors; special functions; partial differential equations; Green’s functions; perturbation theory; integral equations; calculus of variations; and groups and group representatives.

Extended Course Description  
This course is being offered by the Texas Physics Consortium as part of the Joint BS degree with a Physics Major. All TPC courses use the WTClass system for class management (instead of Blackboard). For more information on TPC, please visit our website ([http://www.tarleton.edu/tpc/](http://www.tarleton.edu/tpc/)) or speak with the Local Facilitator.

The Course Syllabus from the sending institution is attached [Will be attached for students] and is the primary Syllabus that the instructor will follow. This Syllabus exists to make sure you have all of the information summarized in one place and that you are informed about TAMUCC policies.
D. **PREREQUISITES AND COREQUISITES**

Corequisites
- MATH 3315 – Differential Equations

E. **REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES**

Required Textbook(s)
- [TBA]

Supplies
- Internet access is vital for interacting with the instructor and the local facilitator.
- Access to a scanner may be required to submit homework assignments. The Local Facilitator can help with this.

F. **STUDENT LEARNING OUTCOMES AND ASSESSMENT**

Assessment is a process used by instructors to help improve learning. Assessment is essential for effective learning because it provides feedback to both students and instructors. A critical step in this process is making clear the course’s student learning outcomes that describe what students are expected to learn to be successful in the course. The student learning outcomes for this course are listed below. By collecting data and sharing it with students on how well they are accomplishing these learning outcomes students can more efficiently and effectively focus their learning efforts. This information can also help instructors identify challenging areas for students and adjust their teaching approach to facilitate learning.

Specific learning objectives will be shared by the instructor in the Syllabus and during Class.

G. **INSTRUCTIONAL METHODS AND ACTIVITIES**

Classes will be held via live a video conference among all of the Texas Physics Consortium schools. Students will be able to ask questions during class, and the instructor will see who is asking the question.

H. **MAJOR COURSE REQUIREMENTS AND GRADING**

Course requirements and grading will be discussed by the instructor during the first class.

I. **COURSE CONTENT/SCHEDULE**

The expected content and schedule will be distributed by the instructor during the first class.

Note: Changes in this course schedule may be necessary and will be announced to the class by the Instructor. The assignments and exams shown are directly related to the Student Learning Outcomes described in Section F.

J. **COURSE POLICIES**
The course instructor will discuss specific course policies during the first class.

K. COLLEGE AND UNIVERSITY POLICIES

- **Academic Integrity (University)**
  It is expected that university students will demonstrate a high level of maturity, self-direction, and ability to manage their own affairs. Students are viewed as individuals who possess the qualities of worth, dignity, and the capacity for self-direction in personal behavior.
  See Full University Policy at [http://catalog.tamucc.edu/content.php?catoid=10&navoid=313#Academic_Integrity](http://catalog.tamucc.edu/content.php?catoid=10&navoid=313#Academic_Integrity)

- **Classroom/Professional Behavior**

- **Deadline for Dropping a Course with a Grade of W (University)**
  The grade of W will be assigned to any student officially dropping a course by Friday, April 10, 2015. No student is eligible to receive a W without completing the official drop process by this deadline. Visit the Office of the University Registrar for the Course Drop Form that must submitted. After April 10, 2015 a student will not be allowed to drop a course.

- **Grade Appeals (College of Science and Engineering)**
  As stated in University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules website at [http://www.tamucc.edu/provost/university_rules/index.html](http://www.tamucc.edu/provost/university_rules/index.html), and the College of Science and Engineering Grade Appeals webpage at [http://sci.tamucc.edu/students/GradeAppeal.html](http://sci.tamucc.edu/students/GradeAppeal.html). For assistance and/or guidance in the grade appeal process, students may contact the chair or director of the appropriate department or school, the Office of the College of Science and Engineering Dean, or the Office of the Provost.

- **Disability Services**
  Disability Services (DS) is the hub for coordinating services and accommodations to ensure accessibility and utilization of all programs for all Texas A&M University-Corpus Christi students with disabilities. Our services are designed to meet the unique educational needs of enrolled students with documented permanent or temporary disabilities. DS provides intake and consultation services to students seeking to register with our office. DS reviews an individual’s documentation of
disability and assesses eligibility for services and the determination of reasonable accommodations. For more information visit the Disability Services Office at 116 Corpus Christi Hall or go to http://disabilityservices.tamucc.edu/

L. OTHER INFORMATION

- The Local Facilitator is happy to help with physics questions and with administrative matters, but you, the student, are responsible for keeping track of assignments and exams. Don’t assume that the Local Facilitator knows when your exams are taking place. Keep in touch; let us know when things are happening. Proctoring takes at least a few days to arrange, so make sure things are ready and confirmed BEFORE your exam takes place.
- The Course Syllabus from the sending institution is attached and is the primary Syllabus that the instructor will follow.

GENERAL DISCLAIMER

I reserve the right to modify the information, schedule, assignments, deadlines, and course policies in this syllabus if and when necessary. I will announce such changes in a timely manner during regularly scheduled lecture periods.