# Course Details

**Meeting Times:** Tuesday, and Thursday, 11:00 AM – 12:15PM

**Location:** WAEC1104

**Course Description:** This is a three (3) credit hour course. This course teaches students technical database programming with relational database systems. Students will work with fourth generation languages to analyze, design and develop, and execute programs in a database environment.

**Prerequisites**: IST 365 Database Information Management

**Suggested Texts:** Learning PostgreSQL, Salahaldin Juba, Achim Vannahme, Andrey Volkov
ISBN#: 978-178-398918-8

**Additional Materials:** <https://en.wikibooks.org/wiki/PostgreSQL>

http://dbbook.dia.uniroma3.it/dbbook.pdf

# Instructor

**Name:** Davide Andrea Mauro

**Office:**  Morrow Library ML 104

**Phone:**  (304) 696 - 6418

**Email:**  maurod@marshall.edu

**Office Hours:** Monday, Wednesday 2:30 PM – 3:30 PM

 Tuesday, Thursday 1:30 PM – 3:30 PM

Or by appointment.

# Objectives

There will be three (3) contact hours of classroom lecture and discussion per week. Coursework will include classroom lectures, assignments, and exams along with in-class discussion.

Lectures and course materials will be available from MUOnline as they become available.

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| --- | --- | --- |
| **Learning Outcomes** | **Practice** | **Assessment** |
| Create and manage tables. | Lectures and in class hands-on practice | Classroom Discussions, Course Project, In-Class examples, Exams |
| Manipulate table data. | Lectures and in class hands-on practice | Classroom Discussions, Course Project, In-Class examples, Exams |
| Demonstrate programming skills with SQL. | Lectures and in class hands-on practice | Classroom Discussions, Course Project, In-Class examples, Exams |
| Create and use indexes and views. | Lectures and in class hands-on practice | Classroom Discussions, Course Project, In-Class examples, Exams |
| Manage users’ privileges and roles for databases. | Lectures and in class hands-on practice | Classroom Discussions, Course Project, In-Class examples, Exams |
| Be familiar with a procedural extension to SQL. | Lectures and in class hands-on practice | Classroom Discussions, Course Project, In-Class examples, Exams |

# Tentative Schedule

The following is a tentative class schedule. Please note this may change based on class progress or extenuating circumstances.

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| --- | --- | --- |
| **Week #** | **Topics Covered** | **Assignment** |
| Week 1 | Overview and Syllabus, Introduction to PostgreSQL and SQL |  |
| Week 2 | SELECT |  |
| Week 3 | Restricting rows and sorting data |  |
| Week 4 | Joining multiple tables |  |
| Week 5 | Selected single row functions |  |
| Week 6 | Group functions |  |
| Week 7 | Subqueries |  |
| Week 8 | Midterm Review | Midterm Exam (10/12/2017) |
| Week 9 | Table creation and management |  |
| Week 10 | Data manipulation |  |
| Week 11 | Views |  |
| Week 12 | Users and Roles |  |
| Week 13 | Introduction PL/SQL |  |
| Week 14 | Cursors and exceptions |  |
| Week 15 | Final Review | Dead Week |
| Week 16 | - | Final Exam (12/14/2017 10:15 AM – 12:15 PM) |

# Policies

## Computer Requirements

Course materials will be provided through MUOnline (<http://www.marshall.edu/muonline/>). Class announcements and other communications will be sent using your Blackboard account. You can reach me by emailing me through MUOnline or at my Marshall email (maurod@marshall.edu). Please use your official Marshall University email address when sending class related communications. It is good practice to check your email and MUOnline frequently (at least once a day). If you have a smartphone, I encourage you to setup your Marshall account on it so you get notified as soon as possible when you receive email.

**When you send an email always add in the title the course and the section you are referring to. E.g. [CIT466SEC101].**

## Grading

Coursework will account for the following percentages of your final grade:

Assignments: 50%

Midterm Exam: 25%

Final Exam: 25%

Final letter grades are determined based on the following scale, no rounding is applied:

[90-100]% A

[80-90)% B

[70-80)% C

[60-70)% D

[0-60)% F

The instructor reserves the right to change these values depending on overall class performance and/or extenuating circumstances.

### Submission Guidelines

Assignments will be given and turned in through MUOnline unless otherwise noted. Submitted files should follow the following naming convention:

CIT466\_*LastName*\_*FirstInitials*\_*AssignmentName*.docx (or .xlsx, etc.)

### Assessment of Work

Grading of coursework will primarily be based on correctness. Overall quality, usability, and thoroughness will also be taken into account.

While students are encouraged to help each other learn and study, you are responsible for turning in your own work. If you give or receive assistance to/from another student, please include a comment about it with your submission, or it may be investigated as Academic Dishonesty (see below).

### Late Policy

All Assignments are due by midnight on the provided due date. These deadlines are chosen to ensure adequate progress in the course and that you will be prepared for exams. However, because your understanding of the material is top priority, late work will still be accepted at no penalty. This policy is intended to help you if you have difficulty with the material, technical difficulties or other extenuating circumstances; it is **not** an invitation to do everything at the last minute, and the class will be much easier for you if you keep up with each assignment as best you can. If you have trouble understanding something which prevents you from completing an assignment on time, please come see me and we will work out the problem.

No late submissions for the first part of the course will be accepted after the end of the week of the Midterm (Sunday at midnight) and no late submissions at all will be accepted after the beginning of Dead Week (Sunday at midnight).

## Attendance

Attending class is your best opportunity to practice the course materials, ask questions, and learn firsthand. Regular attendance will improve your ability to complete assignments and exams and give you more experience to draw from when applying the skills you learn here in your personal and professional activities.

However, while highly recommended, attendance is NOT mandatory and your grade will not be directly impacted by a missed class. **You are still responsible for all assignments and exams.** If you have obligations which will cause you to miss an exam and inform me ahead of time OR you provide a University Excused Absence for an exam day, a make-up exam time will be arranged. Otherwise, missed exams will receive a grade of zero (0).

## Inclement Weather

Students can find information concerning Marshall’s policy regarding inclement weather regarding inclement weather online via <http://www.marshall.edu/ucomm/weatheremergency-closings/>. Please note that a two-hour delay means that classes that begin at 10:00 a.m. begin on time. Classes that begin at 9:30 a.m. meet at 10:00 a.m. and continue for the remaining period of that class.

## Withdrawal Policy

This course follows standard University policy for withdrawals. The last day to drop this course with a “W” is October 27, 2017.

## Cell Phones

Please be respectful of others and set your phone to ‘Silent’ or ‘Vibrate’ during class. If you need to take a call, please take it outside.

## Academic Dishonesty

As described in the Marshall University Creed, Marshall University is an “Ethical Community reflecting honesty, integrity and fairness in both academic and extracurricular activities.” Academic Dishonesty is something that will not be tolerated as these actions are fundamentally opposed to “assuring the integrity of the curriculum through the maintenance of rigorous standards and high expectations for student learning and performance” as described in Marshall University’s Statement of Philosophy. A student, by voluntarily accepting admission to the institution or enrolling in a class or course of study offered by Marshall University accepts the academic requirements and criteria of the institution. It is the student’s responsibility to be aware of policies regulating academic conduct, including the definitions of academic dishonesty, the possible sanctions and the appeal process. For the purposes of this policy, an academic exercise is defined as any assignment, whether graded or ungraded, that is given in an academic course or must be completed toward the completion of degree or certification requirements. This includes, but is not limited to: Exams, quizzes, papers, oral presentations, data gathering and analysis, practical and creative work of any kind.

If you are found cheating on projects or plagiarizing answers from the Internet or other sources there will be no second chance. In this course, STUDENTS ARE NOT TO “COPY & PASTE” MATERIAL FROM A SOURCE INTO ANY ASSIGNMENT UNLESS SPECIFICALLY AUTHORIZED BY THE INSTRUCTOR. Your penalty is that you will receive a failing grade for the course. In those cases in which the offense is particularly flagrant or where there are other aggravating circumstances, additional, non-academic, sanctions may be pursued through the Office of Judicial Affairs. Notice of an act of academic dishonesty will be reported to the Department Chair, Dean of the College of Science, and to the Office of Academic Affairs. Please refer to the Marshall University Undergraduate Catalog for a full definition of academic dishonesty.

## University Policy

By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to [www.marshall.edu/academic-affairs](http://www.marshall.edu/academic-affairs) and clicking on “Marshall University Policies.” Or, you can access the policies directly by going to [www.marshall.edu/academic-affairs/policies/](http://www.marshall.edu/academic-affairs/policies/).

*Academic Dishonesty/Excused Absence Policy for Undergraduates/Computing Services Acceptable Use/Inclement Weather/Dead Week/Students with Disabilities/Academic Forgiveness/Academic Probation and Suspension/Academic Rights and Responsibilities of Students/Affirmative Action/Sexual Harassment*

## Policy for Students with Disabilities

Marshall University is committed to equal opportunity in education for all students, including those with physical, learning and psychological disabilities. University policy states that it is the responsibility of students with disabilities to contact the Office of Disabled Student Services (DSS) in Prichard Hall 117, phone 304 696-2271 to provide documentation of their disability.

Following this, the DSS Coordinator will send a letter to each of the student’s instructors outlining the academic accommodation he/she will need to ensure equality in classroom experiences, outside assignment, testing and grading. The instructor and student will meet to discuss how the accommodation(s) requested will be provided. For more information, please visit http://www.marshall.edu/disabled or contact Disabled Student Services Office at Prichard Hall 11, phone 304-696-2271.

## Dead Week

(SR-90-91-(95) 247 ASCR) The last five class days of the fall and spring semesters shall be designated as DEAD WEEK for undergraduate students. Examinations that are designated as 15% or more of the final course grade may not be given during this period. Major papers and/or projects defined as 15% or more of the final course grade may be assigned during this period only if stipulated in the official course syllabus which is to be distributed at the beginning of the semester. Night classes, laboratories, freshmen English composition courses, and any classes meeting once a week shall be exempt from the requirements. New material and make­up examinations may be introduced or conducted during the DEAD WEEK. DEAD WEEK is not intended to be incorporated in the summer sessions of the University.

# Disclaimer

The instructor reserves that right to modify the course schedule and evaluation system should it become necessary for the effective conduct of the course.