I.   Instructor Information

Name: Dr. Laura Goadrich
Office hours: Tuesday, 5-6pm, IT 106
Mailbox location: Business and Information Technology Division
Email: lgoadrich@pulaskitech.edu

II.   Catalog Description

This course covers database development and programming techniques emphasizing database structures, database models, and database access using SQL. Students are instructed in the essential concepts and design methodology for the relational database model as implemented by the MySQL database system. Other topics include the data definition language, the data manipulation language, and database normalization. 3 Credit Hours (3 hours lecture per week)

III.   Course Resources

Required textbooks:

Murach, Joel. *Murach's MySQL* Mike Murach and Associates. Fresno, CA: 2015.
        ISBN: 978-1-890774-82-0

IV.   Institutional Learning Outcomes

PTC supports a college-wide institutional learning assessment program which concerns effective instructional methods and promotes student learning achievement by assessing:

1. Communication
2. Critical Thinking
3. Cultural Awareness
4. Information Literacy
5. Professionalism
6. Quantitative Literacy
7. Technology Literacy

For more information, please consult the following website :
http://www.pulaskitech.edu/sla/mission.asp

V. Department/Program Learning Outcomes

The Computer Information Systems department, consistent with the College's mission and the Division's objectives, encourages the success of its students by providing courses with activities for students to:

1. Assess technology problems and implement the best solutions both independently and as a dependable team member
2. Communicate both in writing and verbally about computing concepts and processes using technical terms effectively to both professional and lay audiences in order to secure and maintain employment.
3. Demonstrate knowledge of mathematics and logical approaches to problem solving in order to analyze a situation and anticipate and prepare for a variety of unknown events that might impact the operation of a computer system or network.
4. Demonstrate technical computing skills to prepare for industry certification or to be technically competent in a particular computing position or job field.
5. Demonstrate safe work habits that reflect concern and care for self and an understanding of the local and global impact of computing on individuals, organizations, and society in the context of sustainability.

VI.   Course Outcomes

Students who successfully complete CIS 1413 Relational Database Programming will be able to:

1. Successfully design a database system from a set of data structure documents and create views.
2. Successfully implement a database system in MySQL using SQL commands.
3. Successfully use SQL commands to insert, retrieve, update and delete records from a database system.
4. Successfully use aggregate functions to group and summarize data.
5. Successfully code subqueries and work with data types and functions.
6. Successfully work with transactions and locking.

VII.   Attendance Policy

Agencies granting financial assistance may be notified of the violation of the attendance policy by students receiving financial aid.

Attendance is taken starting the first day of the semester, with the exception of students who enroll after classes have started. Teachers have the right to count students as absent if they arrive late to class, leave class early, or go in and out of the classroom during class time. Teachers have the right to lower a student's grade based on excessive absences.

Any student who misses two consecutive weeks of class may be administratively withdrawn from the class.

Any student who does not attend class within the first two weeks of class will be considered a "no show" according to the campus attendance policy and will be reported as such and dropped from the class.

Teachers have the right to enforce PTC's administrative drop policy for days of consecutive nonattendance.

VIII.   Classroom Policies
The PTC Catalogue rules and regulations will be enforced in this class at all times.

Please consult the following website for more information:
http://www.pulaskitech.edu/admission/web_catalog/

Professional behavior is required. Punctual attendance and intelligent participation are expected. Particulars as determined by the instructor are detailed in the paragraph below.

While this is an online class, I expect professional behavior in your posts and interactions with your fellow students and instructor. Make sure that you are familiar with Netiquette (for your reference: http://www.albion.com/netiquette/book/).

Appropriate behavior is expected for all communications, including any notes, email messages, or telephone conversations. Some guidelines for communication are included in this syllabus to help you.

IX.   Grading
Letter grades will be based on the following scale:

90 to 100%	A
80 to 89%	B
70 to 79%	C
60 to 69%	D
0 to 59%	F

Course grades will be based on the following points:

Labs: My Guitar	560 points
Quizzes	960 points
Blackboard Posts	230 points
Total Class	1750 points

While you are always allowed to work ahead, I will not accept late work. The entire course is available to allow you to work ahead at your convenience. If you are aware of any upcoming personal commitments, work ahead. If you are ill and unable to complete an assignment, contact your instructor immediately via email.

X.   Academic Integrity
It is expected that all students who attend PTC conduct themselves in a manner appropriate for the college experience. Academic integrity is a vital component of collegiate behavior. The PTC catalogue states, "The gaining of knowledge and the practice of honesty go hand-in-hand."

The catalogue also states, "The responsibility and authority of initiating discipline arising from violations of the rules against dishonesty during the process of the course are vested in the instructor of that course."

The complete Academic Integrity Policy can be found in the PTC code of conduct.

Plagiarism is not tolerated. All plagiarism will be brought to the attention of the Dean of Business and Information Technology. No credit will be given for plagiarized work.

XI.   Accommodation Policy

Services for Students with Disabilities: PTC is committed to fulfilling all federal requirements as stated in the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. Accommodations are available to students who have documented disabilities. Students who request accommodations must register with the Coordinator of Disability Services in Counseling Services (501-812-2220 or www.pulaskitech.edu) prior to the semester of planned enrollment, and must provide recent documentation of medical, educational, and/or psychological records.

Students who need accommodations should inform the instructor at the beginning of the course. Accommodations will only be provided if the instructor receives a letter of approved accommodations from the Coordinator of Disability Services. Failure to provide sufficient notification may result in a delay of services.

XII.   Sexual Misconduct

No person at Pulaski Technical College will, on the basis of gender, be excluded from participation in, be denied benefits of, or be subjected to sex discrimination, sexual harassment or sexual misconduct under any education program or activity. All college administrative policies and procedures regarding sex discrimination, sexual harassment, and sexual misconduct are in compliance with Title IX. Students who feel they are victims of sexual misconduct should contact the PTC Title IX Deputy Coordinator for Students:

Michelle Anderson, Dean of Students
Campus Center Building Room 212
501-812-2756
manderson@pulaskitech.edu

Additional information, including the PTC sexual assault policy, procedures, and resources may be found online at http://www.pulaskitech.edu/sexual_misconduct_awareness/.

XIII.   Course Evaluations

Students may be asked to evaluate their instructor and course near the end of the semester. These student evaluations are very important to the improvement in the quality of instruction and course materials. All results are anonymous and shared with the faculty only after the semester is over and grades have been posted.

XIV.   Information Literacy

PTC is committed to the Information Literacy Competency Standards for Higher Education as established by the Association of College and Research Libraries and endorsed by the

National Forum on Information Literacy. Therefore, all courses will incorporate an information literacy component so that, by graduation, all students will be able to recognize the need for information, then locate, evaluate, synthesize, and communicate information in an ethical manner. Information literacy encompasses critical thinking, research, media, technology, health, business, and visual literacy skills to produce lifelong learners who can make informed decisions in the workplace and in their personal lives.

XV.   Course Schedule

Week	Assignment/Activity
1	*How to execute SQL statements.* **Activity**: Download and install MySQL Community Server and MySQL Workbench. **Readings**: Chapter 1 Post to Blackboard discussion board.
2	*How to design a database continued.* **Activity:** Create and manipulate the My Guitar Database. **Readings**: Chapter 2 Post to Blackboard discussion board.
3	*How to create databases, tables, and indexes.* **Activity:** Enhance and manipulate the My Guitar Database. **Readings**: Chapter 3 Post to Blackboard discussion board.
4	*How to retrieve data from a single table.* Quiz: Chapter 1, 2 and 3
5	*How to retrieve data from two or more tables.* **Activity:** Enhance and manipulate the My Guitar Database. **Readings**: Chapter 4 Post to Blackboard discussion board.
6	*How to insert, update, and delete data.* **Activity:** Enhance and manipulate the My Guitar Database. **Readings**: Chapter 5 Post to Blackboard discussion board.
7	*How to code summary queries.* **Activity:** Enhance and manipulate the My Guitar Database. **Readings**: Chapter 6 Post to Blackboard discussion board.
8	*How to code summary queries continued.* Quiz: Chapter 4, 5 and 6.
9	*How to code subqueries.* **Activity:** Enhance and manipulate the My Guitar Database. **Readings**: Chapter 7 Post to Blackboard discussion board.
10	*How to work with data types.* **Activity:** Enhance and manipulate the My Guitar Database. **Readings**: Chapter 8 Post to Blackboard discussion board.

11	*How to use functions.* **Activity:** Enhance and manipulate the My Guitar Database. **Readings**: Chapter 9 Post to Blackboard discussion board.
12	*How to use functions continued.* Quiz: Chapter 7, 8 and 9.
13	*How to design a database based on a data structure and normalize.* **Activity:** Enhance and manipulate the My Guitar Database. **Readings**: Chapter 10 Post to Blackboard discussion board.
14	Have a wonderful fall break!
15	*How to create databases, tables and indices.* **Activity:** Enhance and manipulate the My Guitar Database. **Readings**: Chapter 11 Post to Blackboard discussion board.
16	*How to create views.* **Activity:** Enhance and manipulate the My Guitar Database. **Readings**: Chapter 12 Post to Blackboard discussion board.

Final Exam Schedule:

Your final exam is due Thursday, December 15th by 5pm. The final exam will cover chapters 10, 11, and 12.

Disclaimer: This syllabus and schedule is a guide for the semester. The instructor reserves the right to amend any part of the syllabus as necessary.

XVI. Course Agreement Form

Read, complete, and return to instructor*:*

I have read the course syllabus for Laura Goadrich's CIS 1413 Relational Database Coding at Pulaski Technical College, and I understand its content. I also understand the rules for the class, and I will follow and abide by these rules, including those relating to attendance, assignments, grading criteria, plagiarism, and behavior.

Semester   _____

Date   _____

Print name   _____

Signature   _____

Email address   _____
                (please use your PTC email address)

Telephone   _____