

CIW Program (1937,1939) AM 3 Credits

PREREQUISITES:

1. Algebra I, Geometry, 2 years English, Basic Computer Skills, Keyboarding.
2. Students should have a GPA of at least a 2.8 and minimum absences.

CIW FOUNDATIONS

Foundations is a three-course series that teaches the essential, hands-on skills and knowledge that Internet professionals are expected to understand. The CIW Foundations series of courses prepares students to take the high-stakes CIW Foundations certification exam. Those who pass the CIW Foundations exam earn the highly respected CIW Associate certification, which is recognized throughout the industry as validating essential Internet skills for the workplace. The CIW Associate certification proves that an individual has evolved from being an Internet consumer to an Internet producer, capable of producing real-world Internet applications. A CIW Associate certificant can use common Internet-ready applications, can create properly formed HTML/XHTML documents, knows CGI and database essentials, and can troubleshoot networks.

- *Internet Business Foundations* prepares students to work effectively in today's business environment.
- *Site Development Foundations* teaches students essential Web page development skills.
- *Network Technology Foundations* teaches essential networking technologies and skills, including TCP/IP, stable network creation, wireless networking and network troubleshooting.

CIW – DESIGN METHODOLOGY AND TECHNOLOGY

Teaches students how to design and publish Web sites. General topics include Web Site Development Essentials (such as the site development process, customer expectations, and ethical and legal issues in Web development), Web Design Elements (such as aesthetics, the site user's experience, navigation, usability and accessibility), Basic Web Technologies (such as basic Hypertext Markup Language [HTML], Extensible HTML [XHTML] and extended technologies, image files, GUI site development applications, site publishing and maintenance) and Advanced Web Technologies (such as multimedia and plug-in technologies, client-side and server-side technologies, and Web databases).

- Students will work with popular production tools such as Microsoft FrontPage, Macromedia Dreamweaver and Flash.
- Students will learn to manage the Web site development process, including new technologies and traditional strategies involving the Web designer job role.

- *CIW Foundations: (1.5 credits)*
IBF, SDF, NTF - 1937

CIW Design Methodology and Technology: 1939 (1.5 credits)
Design Methodology and Technology –part 1- 1939
Design Methodology and Technology –part 2 -1939

ORACLE INTERNET ACADEMY - (1932,1934, 1933, 1935) PM 3 Credits

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2. Students should have a GPA of at least a 2.8 and minimum absences.

DATABASE DESIGN & PROGRAMMING –

Students analyze case studies to identify patterns and connections between information not obviously related and to develop solutions to make a business effective. The program teaches inductive reasoning to solve problems and think conceptually, systematically, and critically. Students become proficient business

analysts, technical experts in structured query language (SQL), and develop essential "professional skills" including teamwork, project management, presentation and interviewing techniques.

- Transform business requirements into an operational database
- Create physical relational database tables to implement a database design
- Manage a business project that delivers a database design and model for a potential client
- Create, maintain, and manipulate database objects
- Prepare for Introduction to Oracle 10g - SQL Certification exam

PL/SQL Programming

The Database Programming With PL/SQL course introduces students to the PL/SQL programming language. PL/SQL is the procedural language extension to SQL and is Oracle Corporation's standard data access language for relational databases. PL/SQL overcomes the limitations of the SQL programming language because it includes procedural logic constructs such as variables, constants, conditional statements, and iterative controls.

At the end of the course, students will be able to:

- Design PL/SQL anonymous blocks
- Write PL/SQL code to interface with the database
- Describe the features and syntax of PL/SQL
- Use PL/SQL programming constructs and conditionally control code flow (loops, control structures, and explicit cursors)
- Handle runtime errors
- Create simple procedures and functions
- Design PL/SQL packages to group and contain related constructs
- Create triggers to solve business challenges
- Use advanced data types such as LOBs, Bfiles, tables, and records
- Manage dependencies between PL/SQL subprograms

- *ORACLE INTERNET ACADEMY: 193109 (1.5 credits)*
Oracle 1 - Data Modeling - 193219
Oracle 2 – SQL Programming – 193429

ORACLE INTERNET ACADEMY: 193109 (1.5credits)
Oracle 3 –Introduction to PL/SQL - 193319
Oracle 4 – PL/SQL Programming – 193529

CIW/DMT are offered in the AM / ORACLE 1-4 are offered in the PM