WGU COMPUTER SCIENCE ALL CLASSES

WGU COMPUTER SCIENCE ALL CLASSES: A COMPLETE GUIDE TO YOUR DEGREE JOURNEY

WGU COMPUTER SCIENCE ALL CLASSES FORM THE BACKBONE OF AN INNOVATIVE AND FLEXIBLE EDUCATIONAL EXPERIENCE OFFERED BY WESTERN GOVERNORS UNIVERSITY. FOR ANYONE CURIOUS ABOUT PURSUING A COMPUTER SCIENCE DEGREE THROUGH AN ONLINE, COMPETENCY-BASED PROGRAM, UNDERSTANDING THE FULL SCOPE OF CLASSES AND WHAT THEY ENTAIL IS CRUCIAL. WGU'S APPROACH TO EDUCATION IS UNIQUE, FOCUSING ON MASTERY RATHER THAN TIME SPENT IN CLASS, MAKING IT ESSENTIAL TO DIVE DEEP INTO THE COURSES YOU'LL BE TACKLING.

IF YOU'RE CONSIDERING WGU FOR YOUR COMPUTER SCIENCE DEGREE, THIS ARTICLE WILL WALK YOU THROUGH THE TYPICAL CURRICULUM, THE SKILLS YOU'LL GAIN, AND HOW THE PROGRAM'S STRUCTURE EMPOWERS YOU TO ADVANCE AT YOUR OWN PACE.

OVERVIEW OF WGU'S COMPUTER SCIENCE PROGRAM

WGU'S BACHELOR OF SCIENCE IN COMPUTER SCIENCE PROGRAM IS DESIGNED WITH WORKING ADULTS IN MIND, BLENDING FLEXIBILITY, AFFORDABILITY, AND A CURRICULUM ALIGNED WITH INDUSTRY STANDARDS. UNLIKE TRADITIONAL UNIVERSITIES, WGU'S CLASSES ARE COMPETENCY-BASED, MEANING YOU PROGRESS BY DEMONSTRATING KNOWLEDGE AND SKILLS RATHER THAN SITTING THROUGH LECTURES OR SEMESTERS.

THE PROGRAM PREPARES STUDENTS FOR A VARIETY OF ROLES IN SOFTWARE DEVELOPMENT, CYBERSECURITY, SYSTEMS ANALYSIS, AND MORE. IT ALSO PLACES A STRONG EMPHASIS ON REAL-WORLD APPLICATIONS, CODING, ALGORITHMS, AND CRITICAL THINKING.

WGU COMPUTER SCIENCE ALL CLASSES BREAKDOWN

Understanding the scope of wgu computer science all classes can help prospective students plan their studies efficiently. The curriculum is divided into several key categories, covering foundational knowledge, core computer science topics, mathematics, and general education.

1. FOUNDATIONAL COURSES

Before diving into the more technical computer science classes, WGU requires you to build a solid foundation. These classes cover essential topics such as:

- ** Introduction to IT**: Familiarizes students with the basics of information technology, hardware, software, and networking concepts.
- **ENGLISH COMPOSITION**: DEVELOPS ACADEMIC WRITING AND COMMUNICATION SKILLS CRITICAL FOR TECHNICAL DOCUMENTATION.
- **College Algebra and Trigonometry**: Strengthens mathematical reasoning needed for advanced computer science courses.

THESE FOUNDATIONAL COURSES ENSURE THAT ALL STUDENTS START WITH A LEVEL PLAYING FIELD, REGARDLESS OF PRIOR KNOWLEDGE.

2. CORE COMPUTER SCIENCE CLASSES

THE HEART OF THE WGU COMPUTER SCIENCE ALL CLASSES EXPERIENCE LIES IN THE CORE COURSES, WHICH INCLUDE SUBJECTS LIKE:

- **Programming Fundamentals**: Typically covering languages such as Java, Python, or C++, this class introduces programming logic, syntax, and problem-solving.
- **DATA STRUCTURES AND ALGORITHMS**: A CRITICAL COURSE FOCUSING ON EFFICIENT DATA ORGANIZATION AND ALGORITHMIC THINKING, KEY FOR SOFTWARE DEVELOPMENT AND TECHNICAL INTERVIEWS.
- **Operating Systems**: Provides an understanding of how operating systems work, including processes, memory management, and file systems.
- **Computer Architecture**: Explores the hardware-software interface, helping students grasp how computers execute instructions.
- **SOFTWARE ENGINEERING**: COVERS SOFTWARE DEVELOPMENT LIFE CYCLES, METHODOLOGIES, AND PROJECT MANAGEMENT TECHNIQUES.
- **Database Management Systems**: Teaches how to design, implement, and manage databases using SQL and other tools.

THESE CLASSES ARE DESIGNED TO BUILD DEEP TECHNICAL EXPERTISE WHILE ENCOURAGING PRACTICAL APPLICATION THROUGH PROJECTS AND ASSESSMENTS.

3. ADVANCED AND SPECIALIZED CLASSES

WGU ALSO OFFERS COURSES THAT DIVE DEEPER INTO SPECIALIZED AREAS OF COMPUTER SCIENCE, ALLOWING STUDENTS TO TAILOR THEIR STUDIES TO THEIR CAREER GOALS:

- **CYBERSECURITY FUNDAMENTALS**: INTRODUCES SECURITY PRINCIPLES, THREAT ANALYSIS, AND PROTECTIVE MEASURES.
- **Web Development**: Focuses on front-end and back-end technologies, including HTML, CSS, JavaScript, and server-side programming.
- **CLOUD COMPUTING AND VIRTUALIZATION**: COVERS MODERN INFRASTRUCTURE CONCEPTS AND CLOUD SERVICES.
- ** Mobile Application Development **: Teaches building apps for Android and iOS platforms.
- ** ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**: PROVIDES AN OVERVIEW OF AI CONCEPTS, ALGORITHMS, AND APPLICATIONS.

THESE CLASSES OFTEN REQUIRE APPLYING KNOWLEDGE TO REAL-WORLD SCENARIOS, PREPARING STUDENTS FOR COMPETITIVE JOB MARKETS.

4. MATHEMATICS AND SCIENCE COURSES

STRONG ANALYTICAL SKILLS ARE VITAL FOR COMPUTER SCIENTISTS. WGU INCORPORATES MATH AND SCIENCE CLASSES SUCH AS:

- **DISCRETE MATHEMATICS**: ESSENTIAL FOR UNDERSTANDING LOGIC, SET THEORY, COMBINATORICS, AND GRAPH THEORY.
- **CALCULUS**: TEACHES LIMITS, DERIVATIVES, AND INTEGRALS, USEFUL IN ALGORITHM ANALYSIS AND SCIENTIFIC COMPUTING.
- **PHYSICS OR GENERAL SCIENCE**: SOME PROGRAMS INCLUDE BASIC SCIENCE TO BROADEN ANALYTICAL THINKING.

MATH CLASSES AT WGU EMPHASIZE PROBLEM-SOLVING AND THEORETICAL UNDERPINNINGS RELEVANT TO TECHNOLOGY FIELDS.

5. GENERAL EDUCATION REQUIREMENTS

TO ENSURE A WELL-ROUNDED EDUCATION, WGU INCLUDES GENERAL EDUCATION COURSES LIKE:

- **COMMUNICATION AND PROFESSIONAL SKILLS**: COURSES IN BUSINESS COMMUNICATION, ETHICS, AND TEAMWORK.
- **Humanities or Social Sciences**: Classes that cultivate cultural awareness and critical thinking.
- **Environmental Science or Health**: Depending on the program track, these courses encourage a broader perspective beyond technology.

THESE CLASSES HELP YOU DEVELOP SKILLS THAT ARE CRUCIAL IN COLLABORATIVE AND MULTIDISCIPLINARY WORK ENVIRONMENTS.

HOW WGU'S COMPETENCY-BASED MODEL IMPACTS YOUR LEARNING

One of the most distinctive features of wgu computer science all classes is the competency-based structure. Unlike traditional semesters, you move forward by proving your understanding through assessments, projects, and exams.

THIS MODEL BENEFITS STUDENTS WHO:

- HAVE PRIOR EXPERIENCE OR KNOWLEDGE AND CAN ACCELERATE THROUGH FAMILIAR MATERIAL.
- Prefer self-paced learning to balance work, life, and study.
- WANT DIRECT APPLICATION OF SKILLS THROUGH HANDS-ON PROJECTS.

BECAUSE OF THIS, YOU MIGHT COMPLETE CERTAIN CLASSES FASTER THAN USUAL, WHILE TAKING MORE TIME ON CHALLENGING TOPICS. WGU PROVIDES MENTORS AND RESOURCES TO SUPPORT YOU THROUGHOUT THIS JOURNEY.

TIPS FOR SUCCESS IN WGU COMPUTER SCIENCE CLASSES

NAVIGATING WGU COMPUTER SCIENCE ALL CLASSES CAN FEEL OVERWHELMING AT FIRST. HERE ARE SOME TIPS TO HELP YOU SUCCEED:

- **Create a Study Schedule**: Even though you can learn at your own pace, consistent study habits prevent last-minute cramming.
- **UTILIZE WGU RESOURCES**: TAKE ADVANTAGE OF MENTORS, DISCUSSION BOARDS, AND DIGITAL LIBRARIES.
- **Practice Coding Regularly**: Hands-on coding practice is essential for mastering programming courses.
- ** JOIN ONLINE COMMUNITIES**: FORUMS AND STUDY GROUPS CAN PROVIDE SUPPORT AND MOTIVATION.
- ** APPLY CONCEPTS PRACTICALLY**: USE REAL-WORLD PROJECTS OR FREELANCE WORK TO REINFORCE YOUR LEARNING.

CAREER OUTCOMES AND CERTIFICATION ALIGNMENT

Beyond the classes themselves, WGU's computer science program aligns with industry certifications like CompTIA, AWS, and Cisco, giving you a competitive edge.

GRADUATES TYPICALLY PURSUE ROLES SUCH AS:

- SOFTWARE DEVELOPER
- Systems Analyst
- NETWORK ADMINISTRATOR
- CYBERSECURITY SPECIALIST
- DATABASE ADMINISTRATOR

THE CURRICULUM'S FOCUS ON PRACTICAL SKILLS AND CERTIFICATIONS HELPS STUDENTS TRANSITION SMOOTHLY INTO THE WORKFORCE.

EXPLORING WGU COMPUTER SCIENCE ALL CLASSES REVEALS A THOUGHTFULLY STRUCTURED PROGRAM GEARED TOWARD EQUIPPING STUDENTS FOR THE EVOLVING TECH LANDSCAPE. WHETHER YOU'RE CHANGING CAREERS OR ADVANCING YOUR SKILLS, UNDERSTANDING THE COURSE OFFERINGS AND LEARNING MODEL CAN EMPOWER YOU TO MAKE THE MOST OF YOUR EDUCATIONAL INVESTMENT.

FREQUENTLY ASKED QUESTIONS

WHAT ARE THE CORE CLASSES REQUIRED FOR THE WGU COMPUTER SCIENCE DEGREE?

THE CORE CLASSES FOR THE WGU COMPUTER SCIENCE DEGREE INCLUDE DATA STRUCTURES AND ALGORITHMS, SOFTWARE ENGINEERING, OPERATING SYSTEMS, COMPUTER ARCHITECTURE, NETWORKING, DATABASE MANAGEMENT, AND CYBERSECURITY FUNDAMENTALS.

HOW DOES WGU STRUCTURE ITS COMPUTER SCIENCE COURSES?

WGU STRUCTURES ITS COMPUTER SCIENCE COURSES IN A COMPETENCY-BASED FORMAT, ALLOWING STUDENTS TO PROGRESS BY DEMONSTRATING MASTERY OF THE MATERIAL RATHER THAN SPENDING A SET AMOUNT OF TIME IN CLASS.

ARE THERE ANY PROGRAMMING COURSES INCLUDED IN THE WGU COMPUTER SCIENCE CURRICULUM?

YES, WGU INCLUDES MULTIPLE PROGRAMMING COURSES SUCH AS INTRODUCTION TO PROGRAMMING, INTERMEDIATE PROGRAMMING, AND ADVANCED SOFTWARE DEVELOPMENT, COVERING LANGUAGES LIKE JAVA AND PYTHON.

CAN I COMPLETE ALL WGU COMPUTER SCIENCE CLASSES ONLINE?

YES, ALL WGU COMPUTER SCIENCE CLASSES ARE OFFERED FULLY ONLINE, ALLOWING STUDENTS TO STUDY AND COMPLETE COURSEWORK REMOTELY AT THEIR OWN PACE.

WHAT KIND OF CAPSTONE OR FINAL PROJECT IS REQUIRED IN THE WGU COMPUTER SCIENCE PROGRAM?

WGU requires a comprehensive capstone project that involves designing, developing, and presenting a software solution or research project demonstrating the skills learned throughout the Computer Science program.

HOW LONG DOES IT TYPICALLY TAKE TO COMPLETE ALL CLASSES IN THE WGU COMPUTER SCIENCE DEGREE?

THE TIME TO COMPLETE ALL CLASSES IN THE WGU COMPUTER SCIENCE DEGREE VARIES BY STUDENT, BUT ON AVERAGE, IT TAKES ABOUT 2.5 TO 3 YEARS, DEPENDING ON PRIOR KNOWLEDGE AND THE STUDENT'S PACE.

ADDITIONAL RESOURCES

WGU COMPUTER SCIENCE ALL CLASSES: AN IN-DEPTH REVIEW OF CURRICULUM AND COURSE STRUCTURE

WGU COMPUTER SCIENCE ALL CLASSES FORM THE BACKBONE OF THE UNIVERSITY'S INNOVATIVE APPROACH TO ONLINE EDUCATION TAILORED FOR ASPIRING COMPUTER SCIENCE PROFESSIONALS. WESTERN GOVERNORS UNIVERSITY (WGU), KNOWN FOR ITS COMPETENCY-BASED EDUCATION MODEL, OFFERS A BACHELOR OF SCIENCE IN COMPUTER SCIENCE DESIGNED TO EQUIP STUDENTS WITH BOTH THEORETICAL KNOWLEDGE AND PRACTICAL SKILLS ESSENTIAL IN TODAY'S TECH-DRIVEN JOB MARKET. THIS ARTICLE EXPLORES THE COMPREHENSIVE LIST OF CLASSES, THEIR RELEVANCE, STRUCTURE, AND HOW THEY COMPARE TO TRADITIONAL UNIVERSITY OFFERINGS.

UNDERSTANDING WGU'S COMPUTER SCIENCE CURRICULUM

WGU'S COMPUTER SCIENCE DEGREE PROGRAM IS STRUCTURED TO COVER A BROAD SPECTRUM OF FOUNDATIONAL AND

ADVANCED TOPICS. THE EMPHASIS IS ON MASTERY OF SKILLS RATHER THAN TIME SPENT IN CLASS, WHICH ALLOWS MOTIVATED STUDENTS TO PROGRESS AT THEIR OWN PACE. THE CURRICULUM IS DIVIDED INTO KEY DOMAINS THAT REFLECT CURRENT INDUSTRY DEMANDS, FROM PROGRAMMING AND DATA STRUCTURES TO SOFTWARE DEVELOPMENT AND CYBERSECURITY FUNDAMENTALS.

THE PROGRAM'S DESIGN REFLECTS A BALANCE BETWEEN THEORETICAL COMPUTER SCIENCE PRINCIPLES AND APPLIED LEARNING, PREPARING STUDENTS FOR VARIOUS ROLES SUCH AS SOFTWARE DEVELOPERS, SYSTEM ANALYSTS, AND CYBERSECURITY SPECIALISTS. THE COURSES ARE DESIGNED TO BUILD UPON EACH OTHER, ENSURING A COHESIVE LEARNING EXPERIENCE.

CORE COURSE STRUCTURE IN WGU COMPUTER SCIENCE ALL CLASSES

WGU'S COMPUTER SCIENCE PROGRAM INCLUDES A SET OF CORE COURSES THAT EVERY STUDENT MUST COMPLETE. THESE COVER ESSENTIAL AREAS SUCH AS:

- INTRODUCTION TO PROGRAMMING: TYPICALLY USING LANGUAGES LIKE JAVA OR PYTHON, THIS COURSE ESTABLISHES THE BASICS OF CODING, PROBLEM-SOLVING, AND ALGORITHMIC THINKING.
- DATA STRUCTURES AND ALGORITHMS: STUDENTS DIVE INTO ORGANIZING DATA EFFICIENTLY, ANALYZING ALGORITHMS' PERFORMANCE, AND SOLVING COMPLEX COMPUTATIONAL PROBLEMS.
- **DISCRETE MATHEMATICS:** This course lays the mathematical foundations relevant to computer science, including logic, set theory, and combinatorics.
- COMPUTER ARCHITECTURE AND OPERATING SYSTEMS: COVERS HARDWARE FUNDAMENTALS, MEMORY MANAGEMENT, AND HOW OPERATING SYSTEMS FUNCTION AND INTERACT WITH SOFTWARE.
- SOFTWARE DEVELOPMENT AND DESIGN: FOCUSES ON SOFTWARE ENGINEERING PRINCIPLES, DESIGN PATTERNS, AND PROJECT LIFECYCLE MANAGEMENT.
- DATABASE SYSTEMS: INTRODUCES RELATIONAL DATABASES, SQL, AND DATA MODELING TECHNIQUES.
- **NETWORKING FUNDAMENTALS:** EXAMINES THE PRINCIPLES OF DATA COMMUNICATION, NETWORK PROTOCOLS, AND ARCHITECTURES.
- CYBERSECURITY FOUNDATIONS: PROVIDES A BASELINE UNDERSTANDING OF SECURITY THREATS, ENCRYPTION, AND RISK MANAGEMENT.

THESE CORE CLASSES ENSURE THAT STUDENTS POSSESS A WELL-ROUNDED SKILL SET BY THE TIME THEY COMPLETE THE PROGRAM.

SPECIALIZED AND ELECTIVE CLASSES

BEYOND THE CORE CURRICULUM, WGU OFFERS SPECIALIZED COURSES AND ELECTIVES THAT ALLOW STUDENTS TO TAILOR THEIR EDUCATION TOWARDS SPECIFIC INTERESTS OR CAREER GOALS. THESE MAY INCLUDE TOPICS LIKE:

- CLOUD COMPUTING: EXPLORING CLOUD ARCHITECTURE, DEPLOYMENT MODELS, AND SERVICE MANAGEMENT.
- MOBILE APPLICATION DEVELOPMENT: FOCUSING ON BUILDING APPS FOR ANDROID AND IOS PLATFORMS.
- ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING: AN INTRODUCTION TO AI CONCEPTS, ALGORITHMS, AND APPLICATIONS.

• ADVANCED CYBERSECURITY: COVERING PENETRATION TESTING, DIGITAL FORENSICS, AND ADVANCED CRYPTOGRAPHIC TECHNIQUES.

THESE ELECTIVES ENHANCE THE DEPTH AND BREADTH OF KNOWLEDGE, MAKING GRADUATES MORE COMPETITIVE IN SPECIALIZED TECH SECTORS.

THE PEDAGOGICAL APPROACH OF WGU COMPUTER SCIENCE ALL CLASSES

Unlike conventional semester-based programs, WGU's competency-based model allows students to accelerate through courses once they demonstrate mastery. This approach benefits self-motivated learners and professionals balancing education with work or family commitments.

EACH CLASS IS STRUCTURED AROUND CLEARLY DEFINED COMPETENCIES AND ASSESSMENTS, OFTEN INCLUDING PROJECTS, EXAMS, AND PERFORMANCE TASKS THAT SIMULATE REAL-WORLD SCENARIOS. THIS PRACTICAL FOCUS IS A DISTINGUISHING FEATURE OF WGU COMPUTER SCIENCE ALL CLASSES, ENSURING THAT THEORETICAL KNOWLEDGE IS IMMEDIATELY APPLICABLE.

ASSESSMENT AND SKILL VALIDATION

ASSESSMENT IN WGU'S COMPUTER SCIENCE PROGRAM EMPHASIZES AUTHENTIC EVALUATION METHODS SUCH AS:

- 1. **Performance Tasks:** Realistic projects requiring students to design, implement, and document software solutions.
- 2. OBJECTIVE ASSESSMENTS: TIMED EXAMS TESTING CONCEPTUAL UNDERSTANDING AND PROBLEM-SOLVING ABILITIES.
- 3. **Capstone Projects:** Comprehensive projects synthesizing knowledge from multiple classes to solve complex problems.

THIS RIGOROUS ASSESSMENT STRATEGY GUARANTEES THAT GRADUATES HAVE DEMONSTRABLE SKILLS, WHICH IS HIGHLY VALUED BY EMPLOYERS.

COMPARISON WITH TRADITIONAL COMPUTER SCIENCE PROGRAMS

WHEN COMPARING WGU'S COMPUTER SCIENCE CURRICULUM WITH TRADITIONAL UNIVERSITY PROGRAMS, SEVERAL DIFFERENCES STAND OUT:

- FLEXIBILITY: WGU'S SELF-PACED MODEL CONTRASTS WITH FIXED SEMESTER SCHEDULES, OFFERING GREATER FLEXIBILITY.
- Cost Efficiency: Tuition at WGU is generally lower and charged per term rather than per credit, making it more affordable for many students.
- COMPETENCY-BASED LEARNING: STUDENTS PROGRESS BY PROVING MASTERY RATHER THAN ACCUMULATING CREDIT HOLIRS.
- Focus on Practical Skills: WGU emphasizes applied learning and real-world projects more heavily than some traditional programs.

HOWEVER, SOME STUDENTS MAY MISS THE IN-PERSON INTERACTION AND BROADER CAMPUS EXPERIENCE OFFERED BY BRICK-AND-MORTAR INSTITUTIONS.

TECHNOLOGY AND RESOURCES SUPPORTING WGU COMPUTER SCIENCE STUDENTS

WGU SUPPORTS ITS COMPUTER SCIENCE STUDENTS WITH A ROBUST DIGITAL LEARNING ENVIRONMENT. STUDENTS HAVE ACCESS TO CURATED COURSE MATERIALS, INTERACTIVE LABS, AND MENTORING FROM INDUSTRY-EXPERIENCED FACULTY. THIS SUPPORT IS CRUCIAL, ESPECIALLY GIVEN THE REMOTE NATURE OF THE PROGRAM.

MENTORSHIP AND COMMUNITY FORUMS ALSO PLAY A SIGNIFICANT ROLE IN HELPING STUDENTS NAVIGATE CHALLENGING TOPICS AND STAY MOTIVATED THROUGHOUT THEIR STUDIES. THE PROGRAM'S DESIGN ENCOURAGES COLLABORATION AND NETWORKING, ALBEIT VIRTUALLY.

Tools and Software Utilized in Coursework

THROUGHOUT THE COMPUTER SCIENCE CLASSES, STUDENTS ENGAGE WITH A VARIETY OF INDUSTRY-STANDARD TOOLS AND SOFTWARE PLATFORMS, INCLUDING:

- INTEGRATED DEVELOPMENT ENVIRONMENTS (IDES): SUCH AS ECLIPSE, INTELLIJ IDEA, OR VISUAL STUDIO CODE FOR CODING ASSIGNMENTS.
- VERSION CONTROL SYSTEMS: GIT AND GITHUB FOR COLLABORATIVE PROJECT MANAGEMENT AND CODE VERSIONING.
- DATABASE MANAGEMENT SYSTEMS: MYSQL, POSTGRESQL, OR SIMILAR PLATFORMS FOR DATABASE COURSEWORK.
- CLOUD PLATFORMS: ACCESS TO AWS OR AZURE FOR CLOUD COMPUTING ELECTIVES AND PROJECTS.

INTEGRATING THESE TOOLS INTO COURSEWORK ENSURES THAT STUDENTS GAIN HANDS-ON EXPERIENCE WITH TECHNOLOGIES PREVALENT IN MODERN SOFTWARE DEVELOPMENT.

CAREER OUTCOMES AND INDUSTRY RECOGNITION

GRADUATES WHO HAVE COMPLETED WGU COMPUTER SCIENCE ALL CLASSES TYPICALLY FIND THEMSELVES WELL-PREPARED FOR ENTRY-LEVEL TO MID-LEVEL ROLES IN SOFTWARE DEVELOPMENT, SYSTEM ADMINISTRATION, CYBERSECURITY, AND DATA MANAGEMENT. THE UNIVERSITY'S FOCUS ON PRACTICAL SKILLS AND DEMONSTRATED COMPETENCY ALIGNS CLOSELY WITH HIRING PRACTICES AT MANY TECH COMPANIES.

Moreover, WGU'S ACCREDITATION AND REPUTATION FOR PRODUCING JOB-READY GRADUATES CONTRIBUTE POSITIVELY TO THE EMPLOYABILITY OF ITS ALUMNI. MANY EMPLOYERS RECOGNIZE THE VALUE OF COMPETENCY-BASED EDUCATION AS A RELIABLE INDICATOR OF A CANDIDATE'S ABILITIES.

PROFESSIONAL CERTIFICATIONS AND INTEGRATION

AN INTERESTING ASPECT OF WGU'S COMPUTER SCIENCE PROGRAM IS ITS ALIGNMENT WITH INDUSTRY CERTIFICATIONS. SOME CLASSES PREPARE STUDENTS FOR CERTIFICATIONS SUCH AS:

- COMPTIA SECURITY+
- MICROSOFT CERTIFIED: AZURE FUNDAMENTALS
- AMAZON WEB SERVICES (AWS) CERTIFIED CLOUD PRACTITIONER

INCORPORATING CERTIFICATION PREPARATION WITHIN THE CURRICULUM ADDS A COMPETITIVE EDGE FOR GRADUATES ENTERING THE WORKFORCE.

EXPLORING WGU COMPUTER SCIENCE ALL CLASSES REVEALS A THOUGHTFULLY CONSTRUCTED CURRICULUM THAT MERGES ACADEMIC RIGOR WITH PRACTICAL APPLICATION. FOR STUDENTS SEEKING FLEXIBILITY, AFFORDABILITY, AND A CLEAR FOCUS ON DEMONSTRABLE SKILLS, WGU'S COMPUTER SCIENCE DEGREE OFFERS A COMPELLING OPTION. THE STRUCTURE, COURSE CONTENT, AND ASSESSMENT METHODS COLLECTIVELY SUPPORT LEARNERS IN MEETING THE EVOLVING DEMANDS OF THE TECHNOLOGY SECTOR.

Wgu Computer Science All Classes

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wgu computer science all classes: Learning Online Barbara Means, Marianne Bakia, Robert Murphy, 2014-04-03 At a time when more and more of what people learn both in formal courses and in everyday life is mediated by technology, Learning Online provides a much-needed guide to different forms and applications of online learning. This book describes how online learning is being used in both K-12 and higher education settings as well as in learning outside of school. Particular online learning technologies, such as MOOCs (massive open online courses), multi-player games, learning analytics, and adaptive online practice environments, are described in terms of design principles, implementation, and contexts of use. Learning Online synthesizes research findings on the effectiveness of different types of online learning, but a major message of the book is that student outcomes arise from the joint influence of implementation, context, and learner characteristics interacting with technology--not from technology alone. The book describes available research about how best to implement different forms of online learning for specific kinds of students, subject areas, and contexts. Building on available evidence regarding practices that make online and blended learning more effective in different contexts, Learning Online draws implications for institutional and state policies that would promote judicious uses of online learning and effective implementation models. This in-depth research work concludes with a call for an online learning implementation research agenda, combining education institutions and research partners in a collaborative effort to generate and share evidence on effective practices.

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Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space, 1998

wgu computer science all classes: Best Practices in Online Program Development Elliot King, Neil Alperstein, 2014-11-20 Best Practices in Online Program Development is a practical, hands-on guide that provides the concrete strategies that academic and administrative departments within

institutions of higher learning need to develop in order to create and maintain coherent and effective online educational programs. Unlike individual courses, an online education program requires a comprehensive, inter-departmental effort to be integrated into the ongoing educational project of a college or university. This book focuses on the: Integration of online education into the institutional mission Complex faculty-related issues including recruiting, training, and teaching Multifaceted support required for student retention and success Need for multilayered assessment at the course, program, technical, and institutional levels Challenges posed to governance and by the need to garner resources across the institution Model to insure ongoing, comprehensive development of online educational programs Best Practices in Online Program Development covers the above topics and more, giving all the stakeholders in online educational programs the building blocks to foster successful programs while encouraging them to determine what role online education should play in their academic offerings.

wgu computer science all classes: Universal Access in Human-Computer Interaction. Access to Learning, Health and Well-Being Margherita Antona, Constantine Stephanidis, 2015-07-18 The four LNCS volume set 9175-9178 constitutes the refereed proceedings of the 9th International Conference on Learning and Collaboration Technologies, UAHCI 2015, held as part of the 17th International Conference on Human-Computer Interaction, HCII 2015, in Los Angeles, CA, USA in August 2015, jointly with 15 other thematically similar conferences. The total of 1462 papers and 246 posters presented at the HCII 2015 conferences were carefully reviewed and selected from 4843 submissions. These papers of the four volume set address the following major topics: LNCS 9175, Universal Access in Human-Computer Interaction: Access to today's technologies (Part I), addressing the following major topics: LNCS 9175: Design and evaluation methods and tools for universal access, universal access to the web, universal access to mobile interaction, universal access to information, communication and media. LNCS 9176: Gesture-based interaction, touch-based and haptic Interaction, visual and multisensory experience, sign language technologies and smart and assistive environments LNCS 9177: Universal Access to Education, universal access to health applications and services, games for learning and therapy, and cognitive disabilities and cognitive support and LNCS 9178: Universal access to culture, orientation, navigation and driving, accessible security and voting, universal access to the built environment and ergonomics and universal access.

wgu computer science all classes: Handbook on Information Technologies for Education and Training Heimo H. Adelsberger, Betty Collis, Jan Martin Pawlowski, 2013-03-09 Information Technologies for Education and Training have gained increasing attention and significance in the past decade. Accordingly, the availability of an enormous amount of information sources through the Internet, the technological progress in the ICT sector, and an increasing flexibility in organizations and enterprises have accelerated the information and knowledge growth in our society. Knowledge and Lifelong Learning have become critical success factors for the long-term positioning on the global market. Recent mergers of globally distributed enterprises show that knowledge has to be available and transferable within a short time frame. Global, flexible, and service-oriented organizations need highly qualified employees. These trends also show the rapidly growing significance of new aspects of basie and further education. Traditional education, ending with a graduation, will be complemented by a lifelong leaming process. Every individual is required to contin uously learn new and changing knowledge. Consequently, the support of learning processes through innovative technologies becomes an elementary component of every educationallevel. The Handbook is a comprehensive guide for researchers and practitioners work ing with Educational Technologies. Its overall goal is to enable the reader to gain a deep understanding of past, current, and future research and applications in the field of Educational Technologies. It will provide a reference source for both practitioners and researchers in the enterprise and educational sector. From a research perspective, the reader will gain an in-depth understanding of complex theories, strategies, concepts, and methods of Educational Technologies.

wgu computer science all classes: Dental Implants, Part II: Computer Technology, An

Issue of Oral and Maxillofacial Surgery Clinics of North America Ole Jensen, 2019-07-02 This two-part issue of Oral and Maxillofacial Surgery Clinics of North America is devoted to Dental Implants. Part II focuses on Computer Technology and is edited by Dr. Ole Jensen. Articles will include: Navigation in Zygomatic Implant Placement; Fibula grafting and simultaneous implants: Jaw in a day?; Mixed reality in implant restorative dentistry; Computer guided implant treatment for complete arch restoration; Nitinol (Smileloc) complete arch guided implant treatment; Nitinol (Smileloc) guided single implant treatment; Navigation for dental implant treatment; Bone reconstruction planning using computer technology; Printed titanium bone grafting shells for alveolar reconstruction; Printed resorbable bone grafting shells for alveolar reconstruction; Printed custom root-replicate dental implants; Surgical simulation all-on-4 implant treatment maxilla; Surgical simulation all-on-4 treatment mandible; Robotics in implant dentistry; and more!

wgu computer science all classes: Authentic University Lawrence Muganga Ph.D., 2022-08-22 Today's universities fail students, leaving them stranded in an alien world that differs markedly from the ivory tower institution that ostensibly molded them for the future. The Authentic University proposes to overcome the manifold shortcomings of the contemporary postsecondary school by offering an innovative education that corresponds to the realities of the modern era. This university blends three distinct concepts of student-centered education to provide students with a personalized learning experience that develops distinct skills and competencies required by today's employers. Students can save time, money, and effort while learning the information and applications that they want and need. Contained within the covers of this groundbreaking book lies a thorough description of everything that educational stakeholders must know about the Authentic University, including supporting literature and practical models alongside strategies for planning and implementation. The world has passed the university by and will not wait for education to keep pace with its ever-evolving information and communication technology situated in an increasingly entrepreneurial economy. We, as educational stakeholders, must meet the challenge of change in an urgent way. The first step toward bringing the university into the modern era begins with this book; the manual for a radically new type of education termed the Authentic University.

wgu computer science all classes: SWE, 2001

wgu computer science all classes: Teaching at Scale David Joyner, 2022-10-25 Teaching at Scale explores the characteristics and parameters of large-scale online learning by identifying, in its perceived drawbacks, a wealth of educational opportunities in disguise. Scalable learning platforms have exploded in popularity over recent years, with MOOCS (massive open online courses), online degree programs, informal learning communities, and alternative credentials all drawing significant enrollments. But, as many educators are asking, are the challenges to delivering education at scale too great and the compromises too many? This book guides instructors to leverage their complex responsibilities—open-ended assessments at scale, individuated feedback to students, academic integrity in less controlled environments, and more—into significant assets. Informed by real-world institutional experience as well as key research in cognitive science and the learning sciences, each chapter provides practical strategies for educators and administrators seeking to solve problems and fulfill the high-quality, broad-access potential of large-scale instruction for lifelong learners.

wgu computer science all classes: Why and how You Should Learn Math and Science United States. Congress. House. Committee on Science, 1999 This document presents the hearing before the Committee on Science in the House of Representatives on why and how math and science should be learned. It includes oral opening statements by various House representatives. Appendix 1 presents written opening statements from members of the subcommittee on basic research. Appendix 2 features written testimony, biographies, financial disclosures, and answers to post-hearing questions. Materials for the record are listed in the third appendix and include Preparing Our Children: Math and Science Education in the National Interest and Winning the Skills Race: A Council on Competitiveness Report on Mathematics and Science Education. (ASK)

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