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Choose programs at times, locations, and formats to meet your needs and your organization’s needs.

We understand that your time is as valuable as your professional development goals. That’s why we offer certificate programs, exam preps, and specialized short courses in a variety of formats, subject areas, and convenient times. Our programs complement a degree and validate your professional capabilities. Choose the best option to fit your needs and begin your career advancement!

THE UNIVERSITY OF ALABAMA IN HUNTSVILLE

CLASSROOM
Attending courses on the UAH campus is a great way for the hands-on learner to connect. You will interact with peers and actively participate in discussions led by industry professionals and expert instructors.

ONLINE
Enjoy the flexibility of completing an instructor-led certificate program or short course online and within your schedule. Register at any time, and take up to 30 days to complete the course.*

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We can provide your team with programs tailored specifically to meet your organizational goals. Select the topics, location, and times that are convenient for you or your team, and we will bring the transformative learning experience to you.

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Facilitation services that promote rich dialog and recognize learning moments are offered to you or your team. We ask provocative questions and conduct experiential learning through team exercises, videos, role-playing, and case studies.

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GENERAL INFO

WAYS TO REGISTER
Complete the registration form and submit via one of the following:

Hours: M – F, 8:15 am – 5 pm (CST)

ONLINE:
CPCS.uah.edu

PHONE:
256.824.6010 or 800.448.4031

MAIL OR IN PERSON:
UAH CPCS, Wilson Hall, Room 103, Huntsville, AL 35899-0650

FAX:
256.824.6760

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Classroom courses are held on the UAH campus unless otherwise noted.
Refer to your confirmation letter email for the location. View the campus map on the inside back cover. A parking permit will be provided for daytime courses.

UAH WILL BE CLOSED:
Sep 3, 2018 | Nov 22 – 24, 2018
Dec 24, 2018 – Jan 1, 2019
Jan 21, 2019 | Mar 18 – 22, 2019

CPCS.uah.edu

Classroom courses are held on the UAH campus unless otherwise noted.
Refer to your confirmation letter email for the location. View the campus map on the inside back cover. A parking permit will be provided for daytime courses.

UAH WILL BE CLOSED:
Sep 3, 2018 | Nov 22 – 24, 2018
Dec 24, 2018 – Jan 1, 2019
Jan 21, 2019 | Mar 18 – 22, 2019

CPCS.uah.edu
A+ Exam Prep

Meets DoD Directive 8140

CompTIA’s A+ certification fulfills a basic requirement for most technical support and IT administrative positions. On completion of this course, you will understand the fundamental concepts of installation, configuration and maintenance of PCs, devices and related hardware/software. Learn to assemble components based on customer requirements. Apply troubleshooting skills to properly and safely diagnose, resolve, and document common issues while providing appropriate customer service. Validate your knowledge to perform effectively as a technician. Prepare for CompTIA’s A+ Certification Exam 220-901/902 which applies to DoD 8140 Information Assurance Technical (IAT) Level I. Go to comptia.org for complete certification information. **Prerequisite:** Basic understanding of information technology and/or 6 – 12 months hands-on experience in the IT field recommended.

D. Spooner, 28 hrs, $955/$1195* 
Online: D2119010

*With two exam vouchers

Linux+ Exam Prep

The CompTIA Linux+ certification, powered by LPI (Linux Professional Institute), provides access to a range of careers. It offers a framework for acquiring working knowledge of Linux for IT professionals working as junior-level system administrators, as well as those working in web and software development. This course provides clear, concise information on all aspects of Linux administration with a focus on the latest version of the exam. Gain insight from real-world scenarios, with detailed guidance and authoritative coverage of key topics, including GNU and Unix commands, system operation, system administration, system services, and security from a practical perspective that easily translates into on-the-job know-how.

While preparing for CompTIA’s Linux+ Certification Exam LX0-103/104, you can also automatically receive the LPI LPIC-1 and the SUSE (Software Und System Entwicklung) Certified Linux Administrator (CLA) certifications. Earn three industry-recognized certifications for the cost, time, and effort of one! Visit comptia.org for details. **Prerequisite:** A+, Network+, and/or 6 – 12 months of Linux administration experience recommended.

J. Hough, 28 hrs, $1495/$1895* 
Campus: Jun 3 – Jul 8, 2019  |  M, W  |  5:30 – 8:30 pm  |  C2119038**

*With two exam vouchers
** Class will not meet July 3, 2019. July 1 and July 8, 2019 class will meet from 5:30 – 7:30 pm

ISSA Member Discount

UAH CPCS is proud to offer North Alabama Chapter ISSA members (NACISSA) a 10% discount on cybersecurity exam preps. Register today at 256.824.6010.

Select Courses Meet DoD Directive 8140

Select courses assist in the credentialing/continuing education requirements of DoD employees with privileged access to DoD information systems. **Courses Include:** A+, Network+, Security+, CISSP®, CEH™, CAP®, CASP™ Exam Preps

The course made me feel much better about pursuing a Network+ Certification, which is very important in the IT field.
**Network+ Exam Prep**
*Meets DoD Directive 8140*

CompTIA’s Network+ certification is recognized by the U.S. Department of Defense, and many companies require or recommend CompTIA Network+ certification for their networking technicians. Benefit from hands-on exercises and exam question practice in a lab environment. Covered exam topic areas include network technologies, installation and configuration, media and topologies, management, and security. Possible career opportunities for those with Network+ certification include network administrator, network technician, network installer, help desk technician, and IT cable installer. The certification applies to DoD 8140 Information Assurance Technical (IAT) Level I. **Prerequisite:** 6 – 12 months of technical networking experience recommended.

D. Spooner, 28 hrs, $1195/$1395*  
**Campus:** Aug 20 – 23, 2018 | M – Th | 8:30 am – 4:30 pm | C2119009  
**Campus:** Feb 12 – Mar 14, 2019 | T, Th | 5:30 – 8:30 pm | B2119001**  
**Online:** D2119011

*With exam voucher

**March 12 and 14 class will meet from 5:30 – 7:30 pm

**Campus:**
- Aug 20 – 23, 2018 | M – Th | 8:30 am – 4:30 pm | C2119009
- Feb 12 – Mar 14, 2019 | T, Th | 5:30 – 8:30 pm | B2119001**
- D2119011

*With exam voucher

**Campus:**
- Aug 20 – 23, 2018 | M – Th | 8:30 am – 4:30 pm | C2119009
- Feb 12 – Mar 14, 2019 | T, Th | 5:30 – 8:30 pm | B2119001**
- D2119011

*With exam voucher

**Campus:**
- Aug 20 – 23, 2018 | M – Th | 8:30 am – 4:30 pm | C2119009
- Feb 12 – Mar 14, 2019 | T, Th | 5:30 – 8:30 pm | B2119001**
- D2119011

*With exam voucher

**March 12 and 14 class will meet from 5:30 – 7:30 pm

**Security+ Exam Prep**
*Meets DoD Directive 8140*

CompTIA’s Security+ certification is the premier vendor-neutral security certification and is designed for professionals who have two years’ experience with an emphasis on security. Build on your current skill set and prepare for the CompTIA Security+ certification exam. Familiarize yourself with concepts and tools, and anticipate, guard against, mitigate, and respond to security incidents. Hands-on labs give each student in-depth knowledge and practical experience with the current essential security systems. The certification applies to DoD 8140 Information Assurance Technical (IAT) Level II and Information Assurance Management Level I. Visit CompTIA.org for complete information. **Prerequisite:** 2 Years of technical networking experience and/or Network+ recommended.

J. Hough/J. Cuneo/T. Williams, 28 hrs, $1195/$1475*  
**Campus:** Dec 10 – 13, 2018 | M – Th | 8:30 am – 4:30 pm | C2119025  
**Campus:** Jun 4 – Jul 9, 2019 | T, Th | 5:30 – 8:30 pm | C2119039**  
**Campus:** Dec 9 – 12, 2019 | M – Th | 8:30 am – 4:30 pm | C2120004  
**Online:** D2119009

*With exam voucher

**Class will not meet July 4, 2019. Class will meet from 5:30 – 7:30 pm on July 2 and July 9, 2019.

**Campus:**
- Dec 10 – 13, 2018 | M – Th | 8:30 am – 4:30 pm | C2119025
- Jun 4 – Jul 9, 2019 | T, Th | 5:30 – 8:30 pm | C2119039**
- Dec 9 – 12, 2019 | M – Th | 8:30 am – 4:30 pm | C2120004
- D2119009

*With exam voucher

**Class will not meet July 4, 2019. Class will meet from 5:30 – 7:30 pm on July 2 and July 9, 2019.

**Certified Ethical Hacker (CEH™) Exam Prep**
*Meets DoD Directive 8140*

Dive into an interactive environment and learn how to scan, test, and secure systems from hackers. Hands-on lab gives each student in-depth knowledge and practical experience with the current essential security systems. Learn how perimeter defenses work and then scan and attack your own networks (no real network is harmed). Understand how intruders escalate privileges and what steps can be taken to secure a system. Study Intrusion Detection, Policy Creation, Social Engineering, DDoS Attacks, Buffer Overflows, Virus Creation and Cloud Computing. Go to eccouncil.org for complete certification information. **Prerequisite:** Technical networking experience with an emphasis on security recommended.

J. Hairston/J. Cuneo, 35 hrs, $2195/$2595*

**Campus:**
- Dec 10 – 14, 2018 | M – F | 8:30 am – 4:30 pm | C2119013
- Apr 15 – May 22, 2019 | M, W | 5:30 – 8:30 pm | C2119037**
- Dec 9 – 13, 2019 | M – F | 8:30 am – 4:30 pm | C2120005

*With exam voucher

**May 22 class will meet from 5:30 – 7:30 pm

**Campus:**
- Dec 10 – 14, 2018 | M – F | 8:30 am – 4:30 pm | C2119013
- Apr 15 – May 22, 2019 | M, W | 5:30 – 8:30 pm | C2119037**
- Dec 9 – 13, 2019 | M – F | 8:30 am – 4:30 pm | C2120005

*With exam voucher

**May 22 class will meet from 5:30 – 7:30 pm

**Campus:**
- Dec 10 – 14, 2018 | M – F | 8:30 am – 4:30 pm | C2119013
- Apr 15 – May 22, 2019 | M, W | 5:30 – 8:30 pm | C2119037**
- Dec 9 – 13, 2019 | M – F | 8:30 am – 4:30 pm | C2120005

*With exam voucher
Certified Authorization Professional (CAP®) 
Exam Prep 
Meets DoD Directive 8140

Organizations require the CAP® Certification to monitor and protect their network infrastructure and information systems. Knowledgeable people are the key to a secure organization. Cyberspace is the new battlefield where commercial, federal, state, and local government agencies, including the DoD, have become virtual targets. Threats include critical infrastructures such as the energy, transportation, health, emergency services, telecommunications, financial systems, shipping, food, water, and chemical sectors. The Federal Government recognizes the CAP® credential in DoD 8140 at IAM Level I and II. It applies to those responsible for assessing risk and establishing security requirements and documentation using the RMF model. **Prerequisite:** 1-2 years of IT security, risk management, systems, and/or technical networking experience recommended.

**CAP® Benefits:**
- Demonstrates commitment and knowledge
- Offers a career differentiator and credibility
- Provides you with increased earning potential (world-wide average increase of 25%)
- Fulfills requirements for information security certification mandates

**Prerequisite:**
10 years of IT experience and/or 5 years of hands-on technical security experience recommended.

**R. Spee, 28 hrs, $1295**
- **Campus:** Sep 11 – 14, 2018 | T – F | 8:30 am – 4:30 pm | C2119003
- **Campus:** Apr 9 – May 9, 2019 | T, Th | 5:30 – 8:30 pm | C2119044**
- **Campus:** Sep 10 – 13, 2019 | T – F | 8:30 am – 4:30 pm | C2120007

*Exam voucher not included
**Class will meet 5:30 – 7:30 pm on May 7 & 9, 2019.

Certified Information Systems Security Professional (CISSP®) Exam Bootcamp 
Meets DoD Directive 8140

Understand information security best practices and prepare for the CISSP® Exam. Organizations gain a leading edge by demanding qualified information security staff. They demonstrate their dedication by providing the highest standard of security for their customers, employees, stakeholders, and organizational information assets. Define the architecture, design, management, and/or controls that assure the security of business environments. Broaden your expertise in critical topic areas such as application, information, and operations security. Gain in-depth security knowledge in risk management, cloud computing, mobile security, and application development security. The certification applies to DoD 8140 Information Assurance Technical (IAT) Level III, Information Assurance Management Levels II and III, and System Architect and Engineer Levels I and II. Go to isc2.org for complete certification information. **Prerequisite:** 10 years of IT experience and/or 5 years of hands-on technical security experience recommended.

**R. Beavers/E. Jackson/D. Hall, 35 hrs, $2195**
- **Campus:** Sep 17 – Oct 17, 2018 | M, W | 5:00 – 8:30 pm | C2119031
- **Campus:** Apr 1 – May 15, 2019 | M, W | 5:30 – 8:00 pm | C2119043
- **Campus:** Sep 16 – 20, 2019 | M – F | 8:30 am – 4:30 pm | C2120006

*Exam voucher not included

Proud Partners With CompTIA® and EC-Council

As a CompTIA academy partner, we offer you the option to pay a single fee and receive course registration including a discounted exam voucher from PearsonVue. Vouchers are distributed before the last class. Simply register for the “with exam voucher” session. Vouchers are only valid in the U.S. for one year. Courses included are A+, Security+, Network+, Linux+, and CASP™.

As an EC-Council Accredited Training Center, we offer certification training recognized worldwide by various Government agencies including the U.S. DoD, NSA, and the CNSS.
The instructor is obviously an expert, if not a master, of this material. I have already been able to apply what I’ve learned at work. Cyber professionals need to take this course. IT owners too.

COMPLETE YOUR EXAM AT UAH!

UAH TESTING & CERTIFICATION SERVICES IS NOW OPEN.

Over 100 IT exams and over 35 certification/licensure exams are available including professional certification exams, college entrance exams, and credentialing exams.

In addition, we are a Pearson Vue provider with licensure and certification exams including CompTIA, CISCO, and EC-Council.

Why Test at UAH?

- State-of-the-art computer labs
- Comfortable, professional setting
- Convenient location and hours
- Knowledgeable, friendly staff
- Secure storage for personal items

View a full listing of exams at CPCS.uah.edu/TaCS or call 256.824.6373.

CompTIA® Advanced Security Practitioner (CASP) Exam Bootcamp
Meets DoD Directive 8140

The CompTIA Advanced Security Practitioner (CASP) exam is for those who want to take the next step in their career. Demonstrate that you can provide the best cybersecurity solutions and protection for organizations worldwide. Through hands-on activities and lecture, develop the skills you require to confidently perform your duties as an advanced security professional. The CASP is designed for security professionals who want to obtain the technical knowledge and skills needed to implement secure solutions across complex enterprise environments. Go to comptia.org for additional certification information. Prerequisite: 10 years of IT experience and/or 5 years of hands-on technical security experience recommended.

E. Jackson, 35 hrs, $2195/$2545*
Campus: Jun 10 – 14, 2019 | M – F | 8:30 am – 4:30 pm | B2119002
*With exam voucher.

Certified Network Defender (CND) Exam Prep

Are you a network administrator, network security administrator, network security engineer, involved in network operations, or concerned about the integrity of your network infrastructure? Then this course is for you! Enhance your network defense ability and learn about attackers by taking this intensive, hands-on, lab-based course. This course offers network security and cyber defense strategies to protect, detect, and respond to cyber attacks. Interactive labs provide technical skills required to design a secure network with future threats in mind. The CND certification is the next step towards protecting your network. Prepare for the EC-Council CND 312-38 exam and gain 35 hours of class time with an optional 4 hours to complete the CND 312-38 exam at our location and at your convenience after completion of the course. Go to eccouncil.org for complete certification information. Prerequisite: Technical networking experience with an emphasis on security recommended.

J. Hairston, 35 hrs, $2195/$2495*
Campus: Sep 11 – Oct 11, 2018 | T, Th | 5:00 – 8:30 pm | C2119010
*With exam voucher.
NEW Introduction to Excel

Excel formulas and functions are useful in all types of spreadsheet applications. They are essential to manipulating data and obtaining useful information from your Excel workbooks. This course will expand your understanding and use of Excel by focusing on the techniques that help you build useful worksheet formulas and enhance spreadsheet functionality with the right functions. Learn to create formulas, import, export, validate data, and more. Understand how to maintain your original data, audit your formulas for correctness, and adjust values to be able to calculate how to reach outcome goals. **Prerequisite:** Fundamental experience with PCs and Windows.

A. Spain, 7 hrs, $265  
Campus: Feb 8, 2019 | F | 8:30 am – 4:30 pm | C2119047

NEW Excel: Formulas and Functions

Excel formulas and functions are useful in all types of spreadsheet applications. They are essential to manipulating data and obtaining useful information from your Excel workbooks. This course will expand your understanding and use of Excel by focusing on the techniques that help you build useful worksheet formulas and enhance spreadsheet functionality with the right functions. Learn to create formulas, import, export and validate data, plus more. Understand how to maintain your original data, audit your formulas for correctness, and adjust values to be able to calculate how to reach outcome goals. **Prerequisite:** Intermediate level Excel users familiar with general concepts of Excel features.

A. Spain, 7 hrs, $265  
Campus: Mar 8, 2019 | F | 8:30 am – 4:30 pm | C2119048

NEW Excel: Introduction to PivotTables and PivotCharts

Become more valuable to your organization by discovering the power of PivotTables and PivotCharts. Learn to use data sets that work with PivotTables. Understand how to organize and summarize data, format reports and data, and create PivotCharts to visualize pivoted data. This course is suitable for those who work in Excel but have little to no knowledge of how to create PivotTables and PivotCharts and who want a greater understanding of how to analyze and report information. **Prerequisite:** Intermediate level Excel users familiar with general concepts of Excel features.

A. Spain, 7 hrs, $265  
Campus: Apr 12, 2019 | F | 8:30 am – 4:30 pm | C2119049

SAVE WHILE TRAINING YOUR TEAM!

Corporate Training Bundles are a cost-effective and stress-free approach to meet your organizational training needs.

Contact Alissa.McKinnon@uah.edu or call 256.824.4430 for details.

Earn Your Accountancy CPEs at UAH!

The Alabama State Board of Public Accountancy has granted CPE equivalency to many of our courses and certificate programs. Visit CPCS.uah.edu/Accountancy for the full list of approved courses.
Access Essentials
Learn Access basics of how to design and create databases and the many ways databases streamline information management. Explore basic ways to plan, create, and manipulate databases using tables. Discover how to create and modify queries as well as perform operations within queries. Master data entry rules and properties by using them to your advantage. **Prerequisite:** Experience with PCs and Windows.

*B. McCall, 7 hrs, $265*
**Campus:** Nov 6 – 8, 2018 | T, Th | 5:00 – 8:30 pm | C2119014
**Campus:** Feb 5 – 12, 2019 | T, Th | 5:30 – 7:50 pm | C2119040

Using SharePoint
Effective communication is vital to successful organizations. SharePoint® combines the latest technology, functionality of applications, and the web into a single environment to share information and collaborate with colleagues. Learn how to create, edit, and manage content on your team’s site. **Prerequisite:** Experience with PCs and Windows.

*K. Counselman, 14 hrs, $425*
**Campus:** Aug 28 – Sep 6, 2018 | T, Th | 5:00 – 8:30 pm | C2118066

PowerPoint Essentials
Create basic PowerPoint presentations, and gain hands-on experience in formatting text, adding and modifying graphical objects, and adding charts and tables. Explore customization including template creation, adding diagrams and special effects, publishing slides to a library, and securing your presentations. **Prerequisite:** Experience with PCs and Windows.

*B. McCall, 7 hrs, $265*
**Campus:** Oct 17, 2018 | W | 8:30 am – 4:30 pm | C2119016

NEW Powerful Presentations Using PowerPoint
Delivering effective and powerful presentations is critical to success whether you are presenting a new initiative or asking a manager for budget resources. Learn PowerPoint tips that make an impact to influence your audience. This course will provide examples of what makes the best PowerPoint presentations utilizing layout, themes, graphics, objects, builds, slide transitions, and more. Knowing your audience and delivery techniques will also be explored. Practice building easy-to-create powerful, engaging, professional and custom presentations that ensure an attentive audience. **Prerequisite:** Experience with PCs and Windows.

*L. Smith, 7 hrs, $265*
**Campus:** Feb 8, 2019 | F | 8:30 am – 4:30 pm | C2119046
Fundamentals of SQL Using Oracle

Gain an extensive introduction to data server technology. Cover concepts of both relational and object database theory, design, and terminology. Learn SQL statement categories and their purpose. Study basic SQL programming concepts and techniques to store, retrieve, and manipulate data. Participate in hands-on labs to create and maintain database objects to reinforce learning. **Prerequisite:** Fundamental user experience with PCs. Basic programming experience is a plus.

T. Bell, 21 hrs, $895  
Campus:  Feb 19 – Mar 12, 2019  |  T, Th  |  5:30 – 8:30 pm  |  C2119031

Oracle PL/SQL Programming

Oracle PL/SQL language provides for programming logic features not contained within SQL. Cover the main features of PL/SQL: blocks, sections of blocks, error handling, variables, constants, data abstraction, subprograms, stored programs, triggers, and control statements. Create and manage user-defined packages and Oracle supplied packages. **Prerequisite:** Fundamentals of SQL Using Oracle or equivalent experience.

T. Bell, 21 hrs, $895  
Campus:  Apr 16 – May 7, 2019  |  T, Th  |  5:30 – 8:30 pm  |  C2119032

Developing Oracle Application Express (APEX) Web Applications

Build database-centric, web-enabled applications using Oracle APEX, a true rapid application development (RAD) environment. Create and define attributes of live, front-end applications in APEX using the Oracle database engine as the database host. Generate additional application pages, update the application, fine tune the look and feel using themes and templates, and deploy the application. **Prerequisite:** Fundamentals of SQL Using Oracle or equivalent experience.

T. Bell, 21 hrs, $895  
Campus:  Jun 11 – Jul 2, 2019  |  T, Th  |  5:30 – 8:30 pm  |  C2119033

NEW Using VMware vSphere

Gain a solid understanding of how to administer a vSphere infrastructure for an organization of any size. This hands-on course is designed to help systems engineers, network engineers, and network administrators gain a basic understanding including terminology and navigation. Explore installation, configuration, and management of VMware vSphere, which consist of VMware ESXi and VMware vCenter Server. Understand the vCenter server architecture and software-defined data center. Learn to create virtual machines, configure virtual networks, manage your infrastructure with VMware client, and more. **Prerequisite:** Experience with either Microsoft Windows, Linux operating systems, CompTIA Network+, A+, Security+, Linux+, or MCSA Windows Server is recommended.

D. Spooner, 21 hrs, $695  
Campus:  Sep 18 – 20, 2018  |  T – Th  |  8:30 am – 4:30 pm  |  C2119012
Using HTML5 and CSS3

Discover the new standards and features of HTML5 and CSS3 to create more visually engaging web pages with transitions, animations, and media elements. Using style sheets, explore mobile device media that can be viewed and supported in mobile browsers to include audio and video in web pages. This step-by-step course allows web developers to create dynamic pages.

C. Cantrell, 21 hrs, $495
Online: D119001

JavaScript for Beginners

Learn to code, create, and build in JavaScript, the native language of the web used by developers all over the world. Understand how to create HTML5 sites and other interactive websites using this versatile language. As a web developer, it is essential that you have a solid understanding and become acquainted with one of the most highly-sought job market skills by employers today. JavaScript is the foundation of many commonly used libraries and frameworks. Prerequisite: Using HTML5 and CSS3 or equivalent experience.

C. Cantrell, 21 hrs, $495
Online: D2119002

QuickBooks Foundation

Create a fully functioning business financial management system with ease! Track finances, manage payroll, process invoices, manage sales and expenses, and maximize the software’s features. Learn proven techniques and time-saving shortcuts. Prerequisite: Basic computer skills and knowledge of accounting terms.

M. Ezell, 7 hrs, $265
Campus: Oct 30, 2018  |  T  |  8:30 am – 4:30 pm  |  C2119020
Campus: Mar 26, 2019  |  T  |  8:30 am – 4:30 pm  |  C2119036
Campus: Oct 22, 2019  |  T  |  8:30 am – 4:30 pm  |  C2120003

QuickBooks for Government Contractors

Utilize QuickBooks to be in compliance with DCAA accounting requirements. Structure the chart of accounts in cost pool format to properly segregate direct costs from indirect costs, as well as exclude the unallowable costs outlined in FAR 31. Set up payroll items, projects, and timecards to use in conjunction with the Customer module for job costing. Accumulate the data you will need for rate computations. Explore various DCAA audits such as the Incurred Cost Submission, Floor Check and Pre-Award Audit. In addition, complete DCAA’s pre-award audit form SF 1408 to show how the requirements can be met. Prerequisite: QuickBooks Foundation or basic knowledge of QuickBooks and Government contracting.

K. Gardner, 7 hrs, $265
Campus: Feb 5, 2019  |  T  |  8:30 am – 4:30 pm  |  C2119041

MASTER PROGRAMMER CERTIFICATE

Enhance your programming skills by receiving a comprehensive Master Certificate in Programming Languages. Improve your personal marketability with training designed to build expertise and experience that leads to career advancement, recognition, and increased earning potential. This program is comprised of the most in-demand developer programs offered at UAH PD Solutions.

Whether you plan to use the knowledge gained for a current position, or simply for self-enrichment, the Master Programmer Certificate will drastically improve your overall programming ability and understanding of programming best practices, which will place you in a position to effectively achieve career success.

SAVE $500 by taking the complete 5-course series (call 256.824.6010) or take just one course.

Choose five of the following courses (See pages 10 – 11):
• C++ Programming
• Advanced C++ Programming
• Introduction to Java Programming
• Java Programming Advanced Features
• Introduction to Python Programming
• Advanced Python Programming
INTRODUCTION TO PYTHON PROGRAMMING

Developed as a dynamic, object-oriented programming language, Python has gained popularity for its simple, yet robust design that allows you to create dynamic applications that can easily be integrated into other programs or systems. Expand your skill set by gaining the knowledge needed to easily develop Python by incorporating the various domains explored. Learn Python’s basic syntax and present ways to emphasize readability by writing fewer lines of code. Whether you are a beginner or an experienced programmer trying to expand your skill set, Python can provide you with the tools needed to further your professional horizons. **Prerequisite:** Experience with PCs and familiarity with programming concepts.

**D. Layman, 21 hrs, $895**

**Campus:**
- Oct 1 – 3, 2018 | M – W | 8:30 am – 4:30 pm | C2119008
- Feb 4 – 25, 2019 | M, W | 5:30 – 8:30 pm | C2119028
- Aug 6 – 8, 2019 | T, Th | 8:30 am – 4:30 pm | C2119045

**Online:** D2119005

ADVANCED PYTHON PROGRAMMING

Put your Python skills into action with several real-world applications. Create an event-driven graphical desktop application with the built-in Python Graphical User Interfaces (GUI) library. Learn to write code to connect to SQL and NoSQL databases and dive deeper into object-oriented programming. Develop a client/server application using sockets and network programming and create a web application using Python technology on the server. While creating these applications, master tricky language features like generators and lambdas. **Prerequisite:** Introduction to Python Programming or equivalent experience.

**C. Cantrell, 21 hrs, $895**

**Campus:**
- Mar 11 – Apr 8, 2019 | M, W | 5:30 – 8:30 pm | C2119029**

**Online:** D2119006

*Class will not meet March 18 or 20, 2019

**Also Available:**

Introduction to R Programming
See page 12.

**Virtual Desktops**

Utilize the Virtual Desktop tool to enhance your course experience. Feel confident that you can apply your newly attained knowledge!
**C++ DEVELOPER CERTIFICATE**

Master a powerful tool by learning C++ programming language used for Object-Oriented (OO), generic, and procedural programming. By participating in hands-on lab exercises, you will be equipped to write C++ code to utilize basic types, create abstract object classes, manipulate object data, change the personality of objects, and use file manipulation to implement stand-alone C++ programs.

Take the 2-course certificate series or take just one course.

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**C++ Programming**

Familiarity with C++ is an essential skill for engineers, scientists, and many technical managers. This introductory course offers a solid understanding of object-oriented programming, which is critical for programming on the latest compilers and systems. Design and use classes, loops and decisions, and objects effectively in C++ to create powerful applications. **Prerequisite:** Experience with a programming language such as C.

*D. Brockhaus/J. Busby, 21 hrs, $895*

**Campus:**
- Feb 12 – 14, 2019 | T – Th | 8:30 am – 4:30 pm | C2119042
- Jul 15 – Aug 5, 2019 | M, W | 5:30 – 8:30 pm | C2119035

**Online:** D2119007

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**Advanced C++ Programming**

Build on your knowledge of basic C++ syntax and explore the full capabilities of the standard C++ library. Learn to apply the streaming operators and the proper canonical interface of an object. Practice using object management with smartpointers and reference counting. Add the STL containers and algorithms to your own programs and explore the Gang of Four Object-Oriented (OO) design patterns. **Prerequisite:** C++ Programming or equivalent program development experience.

*D. Brockhaus/C. Cantrell, 21 hrs, $895*

**Campus:**
- Sep 10 – 24, 2018 | M, W | 5:00 – 8:30 pm | C2119007
- Aug 19 – Sep 11, 2019 | M, W | 5:30 – 8:30 pm | C2119007**

**Online:** D2119008

**Class will not meet September 2, 2019**

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**JAVA DEVELOPER CERTIFICATE**

Prepare yourself to take advantage of the career opportunities available to Java developers who are more in demand than ever. Java is the perfect environment to master Object-Oriented (OO) programming concepts that transfer to all modern programming languages. Java technology is at the core of many large-scale business applications—especially business-to-business commercial systems that fuel the Internet economy.

Take the 2-course certificate series or take just one course.

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**Introduction to Java Programming**

Through a series of hands-on, instructor-led lab exercises you will learn Java syntax, Object-Oriented (OO) programming, and study the structure of a well-written Java program. Cover skills common to all modern programming languages such as variables, flow-control, pointers, and arrays. During lab exercises, gain hands-on experience with Java development tools and tour the massive Java I/O library to learn what is available and how to use it. **Prerequisite:** Experience with PCs and programming concepts.

*D. Layman/C. Cantrell, 28 hrs, $995*

**Campus:**
- Oct 8 – 31, 2018 | M, W | 5:00 – 8:30 pm | C2119005
- Apr 22 – May 22, 2019 | M, W | 5:00 – 8:30 pm | C2119026*

**Online:** D2119003

**May 20 and May 22 class will meet from 5:30 – 7:30 pm**

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**Java Programming Advanced Features**

Learn to leverage the power of Java for developing client/server applications. Gain proficiency with the Java JDBC API and create applications to demonstrate its use. Become familiar with core concepts for GUI applications, and learn to embed Java inside HTML with JSP. Learn client/server programming, using both raw network sockets and the more powerful RMI (Remote Method Invocation) system so that your Java application will be able to run on any operating system with Java support, including Windows, Linux, and Mac. **Prerequisite:** Introduction to Java Programming or equivalent experience.

*D. Layman/C. Cantrell, 28 hrs, $995*

**Campus:**
- Nov 12 – Dec 10, 2018 | M, W | 5:00 – 8:30 pm | C2119006*
- Jun 3 – Jul 8, 2019 | M, W | 5:30 – 8:30 pm | C2119027**

**Online:** D2119004

**Class will not meet November 21, 2018**

**Class will not meet on July 3, 2019. July 1 and July 8 class will meet from 5:30 – 7:30 pm**
NEW Capability Maturity Model Integration (CMMI)

The Capability Maturity Model Integration (CMMI) model is a tool that provides engineers, developers, managers, and process improvement professionals with an understanding of software process improvement. CMMI is a common requirement for DoD and federal software development contracts. This course provides an overview of the three CMMI models: Acquisition (ACQ), Development (DEV), and Services (SVC). Students receive free subscription access to Knowledge Capture Pro, a modeling tool used to document, maintain and improve your organization’s software development activities. CMMI helps organizations streamline process improvement, encourage a productive, efficient culture that decreases risks in software, product and service development.

S. Gholston, 14 hrs, $495
Campus: Dec 3 – 6, 2018 | M – Th | 8:30 am – 12:00 pm | C2319013

NEW Introduction to R Programming

R is an open-source programming language and environment with powerful and extensive features for data analysis, data visualization, and statistical computing. Although R first appeared in the 1990s, the use of R has recently grown substantially with the increased interest in data analytics, for which it is well suited. R also includes a full range of general purpose programming language features, including control structures, mathematical operations, and file input/output. This course will begin with the basic concepts and statements of R, and then proceed through file input/output, data analysis, and data visualization. Complete working R programs will be presented as examples. Hands-on instructor-led classroom exercises will reinforce participants’ abilities and confidence with R.

Prerequisite: Familiarity with programming concepts, and preferably, prior experience with at least one programming or scripting language.

What You Will Learn:
• Understand the principles of programming
• Learn to use the R console
• Create vectors and data frames in R
• Generate graphs and plots in R

M. Petty, 14 hrs, $795
Campus: Jul 24 – 25, 2019 | W, Th | 8:30 am – 4:30 pm | C2319010

Virtual Desktops

Utilize the Virtual Desktop tool to enhance your course experience. Feel confident that you can apply your newly attained knowledge!
MODELING AND SIMULATION CERTIFICATE

Build a foundation in modeling and simulation, and learn the benefits of using models and their simulation to improve engineering processes.

Prerequisite: Undergraduate degree in a technical field or equivalent experience.

Take the 4-course certificate series or take just one course.

Choose four of the following five courses:

Fundamentals of Modeling and Simulation

Gain an introduction to fundamental M&S terminology and concepts. Review model types and modeling methods to understand how simulations work. Survey typical and emerging M&S applications. Study in-depth three important M&S paradigms and develop simple simulations.

M. Petty, 14 hrs, $795
Online: D2319001

Developing Simulations

Explore the challenges of real-world simulation development and how to plan for large-scale projects with this hands-on simulation building course. Explore modeling approaches including stochastic and physics-based modeling, and artificial intelligence. Delve into simulation techniques, engines, languages, and design features. Prerequisite: Fundamentals of Modeling and Simulation or a background in modeling and simulation.

D. Gross, 14 hrs, $795
Online: D2319003

Simulation Verification, Validation, and Accreditation

Learn a range of verification and validation (V&V) methods including informal, static, dynamic, and formal methods. Review guidelines for selecting the best method for a given model. Explore specific procedures for performing important V&V methods and interpreting their results.

M. Petty, 14 hrs, $795
Online: D2319002

Systems Analysis, Modeling, and Simulation

Cover the analytical methods that, with tests, provide the basis for systems validation and verification processes and procedures. Build your skill base for development of systems models, integration of component models into a systems model, and model-based and hardware-in-the-loop simulation.

Prerequisite: Fundamentals of Modeling and Simulation or a background in modeling and simulation.

J. Little, 14 hrs, $795
Campus: Nov 6 – 7, 2018 | T, W | 8:30 am – 4:30 pm | C2319006
Online: D2319004

Also a core course for the Systems Engineering Certificate.

NEW Monte Carlo Simulation

Monte Carlo simulation is a powerful method that uses probability distributions to simulate many types of systems. Monte Carlo simulation uses randomness, applied in a controlled manner, to explore the range and likelihoods of possible outcomes inherent in a scenario or system and produces results that vary from run to run. Learn two types of Monte Carlo simulation: stochastically (randomly) varying initial conditions are input to a deterministic model; and fixed initial conditions are input to a stochastic model. In both, randomness is generated using probability distributions selected and parameterized to model the actual variability present in the scenario or system being modeled. Prerequisite: Background in probability or statistics and MS Excel are recommended. Examples will be given in both Excel and R.

M. Petty, 14 hrs, $795
Online: D2319005

FEATURED INSTRUCTOR:
DR. MIKEL PETTY is a senior scientist for modeling and simulation at the UAH Information Technology and Systems Center. He has worked in modeling and simulation research and development since 1990 in areas that include simulation interoperability and composability, human behavior modeling, multiresolution simulation, and verification and validation methods. Dr. Petty is also an author of the CMSP Certification Exam.
**NEW Principles of Unmanned Aerial Vehicles (UAVs)**

Expand your knowledge of Unmanned Aerial Vehicles (UAVs) and drone aircraft. Explore the concepts of fixed wing (airplane) and rotary wing (helicopter) flight principles, flight control, and major structural and electronic components of UAVs. This course is designed for managers who want to better understand employee projects, engineers who want to shift to the UAV field, or those with a technical background who want to learn about UAVs. Gain hands-on exposure with radio-controlled (RC) aircraft to illustrate concepts discussed. Identify major components of any UAV, understand the functions of those components and how they work, and learn industry jargon. **Prerequisite:** Familiarity with mathematics and engineering is a plus, but not required.

_B. Stiltner, 14 hrs, $495_

_Campus: Oct 2 – 3, 2018  |  T, W  |  8:30 am – 4:30 pm  |  C2319008_

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**Introduction to Rotorcraft**

Dive into the history, capabilities, and design considerations of rotorcraft systems. Learn how a rotorcraft’s ability to hover provides a unique capability to perform manned and unmanned missions requiring vertical take-off, landing, and maneuvering within a confined area. Explore how the unique requirements of rotorcraft and their subsystems impact designing, delivering, and sustaining an affordable rotorcraft system using hands-on design exercises and trade-off studies. Particular emphasis is placed on the key similarities and differences involved in designing, qualifying, and fielding FAA and military rotorcraft. **Prerequisite:** Undergraduate degree in a technical field or equivalent experience.

_A. Stiltner, 14 hrs, $495_

_Campus: Oct 2 – 3, 2018  |  T, W  |  8:30 am – 4:30 pm  |  C2319008_

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**Missile System Fundamentals**

Learn foundational vocabulary and working knowledge of missile systems, technologies, issues and problem-solving resources. Illustrate key concepts of requirements development, operations, and risk assessment. Understand the capabilities and limitations of missile technology as well as the trade-offs between technology, cost, and performance. This course is designed for employees seeking introductory or deeper practical knowledge in Government, program management, and contractor offices. **Prerequisite:** Undergraduate degree in a technical field or equivalent experience. Participants must be U.S. citizens and provide verification of citizenship. See page 27 for details.

_D. Gunther, 35 hrs, $1295_

_Online: D2319016_

_Customized Training: 256.824.6015_

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**Private Pilot Ground School**

Whether you are aspiring to have an aviation career or just want to learn the requirements to become a pilot, you will gain a better appreciation and understanding of aviation and piloting airplanes. Prepare to complete the Federal Aviation Administration's (FAA) Private Pilot Airplane Knowledge Test. Passing this test is one of the prerequisites for obtaining a private pilot’s license from the FAA. This course is designed in accordance with Part 141 – Pilot Schools Training Requirements of the Federal Aviation Regulations. Cover the twelve Federally mandated aeronautical knowledge areas required for private pilot certification. FAA-approved and aviation industry endorsed curriculum training techniques and materials are used. The comprehensive Private Pilot Kit is authored by Gleim Aviation and is available for approximately $150 at the Off Campus Bookstore.

_R. Lindstrom, 42 hrs, $599_

_Campus: Aug 21 – Dec 4, 2018  |  T  |  5:30 – 8:30 pm  |  C2319009_

_Campus: Jan 9 – Apr 30, 2019  |  T  |  5:30 – 8:30 pm  |  C2319015_

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**AEGIS COMBAT SYSTEM**

- Aegis Combat and Weapon Systems Overview
- Aegis Combat Systems Engineering
- Aegis Ballistic Missile Defense

Available Online On Demand or for Customized Training.

_Call 256.824.6015 for details._
# Fundamentals of Model-Based Systems Engineering with SysML

Take part in this engaging three-day learning event. SysML is a graphical modeling language that enables you to practice MBSE and has become the standard among MBSE practitioners. You will be guided through the practice of MBSE and how it provides the context—and the business case—for learning SysML. Leave the course with an answer to “What is MBSE?” Learn the three pillars of MBSE—a modeling language, a modeling method, and a modeling tool. Discover how MBSE can help you better manage your customers’ expectations while delivering the return on investment that MBSE promises. **Prerequisite:** Undergraduate degree in a technical field, project management, or equivalent experience. 

*Experience in SysML strongly recommended.*

L. Baker, 21 hrs, $1095  
**Campus:** Nov 5 – 7, 2018 | M – W | 8:30 am – 4:30 pm | C2319001  
**Campus:** Apr 8 – 10, 2019 | M – W | 8:30 am – 4:30 pm | C2319011  
**Campus:** Nov 4 – 6, 2019 | M – W | 8:30 am – 4:30 pm | C2320002

# Certified Systems Engineering Professional (CSEP) Exam Bootcamp

Achieve one of the most sought after certifications for engineering professionals. Validate your education, knowledge and experience in the highly competitive field of systems engineering with INCOSE CSEP recognition. A number of organizations, including the U.S. DoD, recognizes the value of the INCOSE CSEP. The certification requires passing an extensive exam based on the INCOSE Systems Engineering Handbook v4. Explore CSEP requirements and the INCOSE SE Handbook to cover all topic areas that might be on the CSEP exam. Interactive work, study plans, and sample exam questions provide the effective preparation needed for the exam. This course also prepares individuals to pass the ASE (Associate Systems Engineering Professional) exam. **Prerequisite:** Degree in engineering discipline or equivalent experience in systems engineering.

**The course fee includes:** The Systems Engineering Handbook. Visit incose.org for exam information and eligibility requirements.

R. Leonard, 14 hrs, $795/$695*  
**Online:** D2319022

*INCOSE Member Discount

**Exam voucher not included**

# PASS YOUR DRONE PILOT EXAM

NEW Drone Pilot License Test Prep

Become a Drone Pilot! The Federal Aviation Administration (FAA) requires a written, in-person, aeronautical knowledge test as one of the requirements for legally flying drones, aka unmanned aerial vehicles (UAVs). This course covers the 12 subject areas tested on the FAA Part 107 Remote Pilot Knowledge Test. Students will reinforce learning with practice quizzes at the end of each subject area. The course will culminate in a full length practice test to help prepare for the Remote Knowledge Test. Open up new career opportunities by preparing for your drone license and keep the national airspace safe. **Prerequisite:** Knowledge of unmanned aircraft, radio controlled aircraft, or manned aircraft is a plus. You do not need a private pilot’s license to become a drone pilot.

**What You Will Learn:**  
- Small Unmanned Aircraft Systems (sUAS) regulations  
- Airspace classification  
- Emergency procedures  
- Radio communication procedures  
- sUAS performance

B. Stiltner, 14 hrs, $395  
**Campus:** May 6 – 22, 2019 | M, W | 5:30 – 7:50 pm | C2319016

**INCOSE Member Discount**  
INCOSE Huntsville Regional Chapter and UAH CPCS have partnered to offer CSEP Exam Bootcamp. INCOSE members receive a discount on this course. Call 256.824.6010 to register.

**Online On Demand Learning**  
Register for an On Demand course at ANY time. Participants have one month to complete the course, or two months for IT courses and courses over 30 hours.
MATLAB

MATLAB is one of the leading technical computing environments for engineers, scientists, mathematicians, and financial analysts. Unlike compiled programming languages, MATLAB allows you to quickly develop code and solve problems without the overhead required by other languages. It can be applied to virtually any problem requiring technical computation. The language, apps, and built-in functions enable you to quickly explore multiple approaches to arrive at a solution. MATLAB also lets you take your ideas from research to production by deploying your code to stand alone applications or onto embedded devices. The MATLAB class will provide the skills needed to work with MATLAB interactively and as a programming language. You will be able to formulate intermediate and some advanced engineering projects into MATLAB and solve them using programming skills. **Prerequisite:** Familiarity with basic computer operations and some familiarity with programming concepts.

_B. Stiltner, 20 hrs, $995_

_Campus:_ Oct 16 – Nov 1, 2018 | T, Th | 5:00 – 8:20 pm | C2319002  
_Campus:_ Apr 16 – 18, 2019 | T – Th | 8:30 am – 4:10 pm | C2319014  
_Campus:_ Oct 1 – 24, 2019 | T, Th | 5:30 – 8:00 pm | C232003

_The instructor is an exceptional instructor and is well-rehearsed in the subject matter. This course was above and beyond my expectations!_

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_Opening the DOORS® to Requirements Management_

DOORS® is a requirements management application for optimizing requirements communication, collaboration, and verification throughout your organization and supply chain. This scalable solution can help you meet business goals by managing project scope and cost while allowing you to capture, trace, analyze, and manage information changes in addition to maintaining compliance to regulations and standards. DOORS® offers a robust environment for importing, exporting, and relating a variety of requirement-related information. Rational DOORS® can assist program managers to achieve an optimal requirements management process with strategies to ensure technical objectives are satisfied across entire program life cycles. Gain the knowledge and hands-on experience to effectively use this computer-based tool. **Prerequisite:** Experience with PCs, requirements development, management, and verification knowledge.

_C. Zolynsky, 21 hrs, $945_

_Campus:_ Sep 25 – 27, 2018 | T – Th | 8:30 am – 4:30 pm | C2319005  
_Campus:_ Apr 23 – 25, 2019 | T – Th | 8:30 am – 4:30 pm | C2319012  
_Campus:_ Sep 24 – 26, 2019 | T – Th | 8:30 am – 4:30 pm | C2320001

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_Return On Your Investment_

Our goal is to maximize your company investment by designing, developing, and delivering a customized program that best meets your organizational needs.

**Why Choose UAH PD Solutions?**

- High quality, relevant curriculum, and cost value
- Top-notch instructors with real-world experience
- Improved performance and results
- Nationally recognized university
- Convenience and flexibility

**WHAT TO EXPECT**

1. **NEEDS ANALYSIS**
2. **IDENTIFY INTENDED OUTCOMES**
3. **PROPOSAL**
4. **PROGRAM DEVELOPMENT**
5. **DELIVER THE PROGRAM**
6. **EVALUATE & FOLLOW UP**

_Call 256.824.6015 to schedule a meeting._
ROCKET PROPULSION CERTIFICATE

Sharpen your technical understanding of rocket propulsion from first principles to practical case studies. Learn from subject matter experts the foundation of rocket propulsion and missile basics, including the principles of conventional and advanced propulsion systems. Identify items critical in the development, operation, and sustainment of propulsion systems. These courses provide a wealth of technical materials and case studies relevant to both propulsion engineers and project managers. **Prerequisite:** Undergraduate degree in a technical field or equivalent experience.

Take the 3-course certificate series or take just one course.

Choose three of the following four courses:

Rocket Propulsion Fundamentals
Gain a foundation in the complex factors that shape propulsion systems. Theory and practical design considerations are the focus. Grasp the essentials of common aerospace propulsion systems including rockets, air-breathing, thermal, and electric. Solid, liquid, and hybrid propulsion system content provides the range of propulsion propellant types and their use considerations. Professionals who are new to the field or need a refresher can benefit from lectures combined with practical exercises reinforcing the learning experience.

**M. Benfield, 12 hrs, $795**
**Online:** D2319013

Advanced Solid Rocket Propulsion
Developed in 2007, a joint NASA and UAH industry initiative resulted in bringing the national subject matter experts in solid rocket propulsion to UAH to educate the next generation of solid rocket motor engineers. Take advantage of this opportunity to engage in an extensive review of solid rocket propulsion. You will learn from recognized specialists about rocket component design, propellant properties, ballistic modeling and burn rate, and combustion. Leave the course with information you can apply in your work.

**R. Frederick, 40 hrs, $895**
**Online:** D2319021

Liquid Rocket Engineering
Learn from recognized propulsion experts and practitioners, Scott Claflin and Dr. Robert Frederick. Benefit from an overview of common liquid rocket engine power cycles, propellants, and components. Instructors will lead you to an understanding of the function, operation, and design considerations of the individual components which comprise a liquid rocket engine such as turbopumps, thrust chambers, preburners, gas generators, igniters, and valves. Learn the fundamentals of combustion stability and stabilization devices as well as combustion chamber heat transfer and cooling. You will be challenged to develop a preliminary design of a liquid rocket engine after learning enabling methodologies and analysis techniques.

**S. Claflin, 35 hrs, $1095**
**Online:** D2319014

Combustion Instability in Solid Rockets
Build an appreciation and understanding of solid rocket combustion instability from internationally recognized solid propulsion experts and practitioners, Dr. Frederick Blomshield and Dr. Robert Frederick. Instructors will guide you through solid rocket combustion fundamentals. Learn background, empirical observations, and commonly performed computations. The class relies on real world motor data whenever possible to illustrate stability prediction methods, amplitude and frequency analysis, response function measurement techniques, and motor pulsing.

**F. Blomshield/R. Frederick, 35 hrs, $1095**
**Online:** D2319015

FEATURED INSTRUCTOR:
**DR. ROBERT FREDERICK** is the Director of the UAH Propulsion Research Center. He has directed over 10 million dollars of research, published extensively, and pioneered an international, team-based aerospace systems design lab. He is an associate fellow of the AIAA and former chairman of the AIAA Hybrid Rocket Technical Committee. He has also served as a technical advisor to NATO in solid propulsion.
Systems Engineering Overview

Systems engineering is a primary approach to the increasing size and complexity of modern systems. This overview is designed to introduce the systems engineer and project manager to fundamental concepts and operating principles of systems engineering. Learn basic techniques that govern the SE process, how SE fits into the life cycle management process, and the problem-solving process. Discover the traditional techniques used and the analysis and control tools that provide balance to the SE process, as well as conflict resolution techniques.

G. Tackett, 14 hrs, $795
Online: D2319006

Requirements Development

One of the most successful impacts a development team can have on a system is to ensure the successful identification, analysis, allocation, and verification of requirements. Learn to allocate the requirements for the system's architecture and processes to conduct a requirements analysis. Go beyond the typical textbook process by applying experience-based instruction. Our subject matter expert will guide you through interactive exercises to develop requirements and experience an entire requirements development process.

G. McPherson, 14 hrs, $795
Campus: Aug 28 – 29, 2018 | T, W | 8:30 am – 4:30 pm | C2319003
Online: D2319017

Also a core course for the Systems Test and Evaluation Certificate.

Applied System Design and Decision-Making

Systems engineers are responsible for gathering information and for making decisions based on complex, and often ambiguous, information. Study how to master trade studies—the identification of alternatives and application of decision-making methodology to support all stages of system development. Learn how to balance performance, schedule, cost, and risk variables. Examples of simulations and graphical presentation techniques will show how to support the trade study process.

D. Gunther, 14 hrs, $795
Campus: Oct 2 – 3, 2018 | T, W | 8:30 am – 4:30 pm | C2319004
Online: D2319007

Also a core course for the Systems Test and Evaluation Certificate.

Systems Analysis, Modeling, and Simulation

Develop an understanding of the objectives of systems analysis and its foundational role in systems engineering. Complementing System Validation and Verification, this course provides broad coverage of the analytical methods that, with tests, provide the basis for systems validation and verification processes and procedures. It will help you develop your skill base for the development of systems models, the integration of component models into a systems model, and model-based and hardware-in-the-loop simulation.

J. Little, 14 hrs, $795
Campus: Nov 6 – 7, 2018 | T, W | 8:30 am – 4:30 pm | C2319006
Online: D2319004

Also an elective for the Modeling and Simulation Certificate.

System Validation and Verification

Ensure that you have a complete approach to the validation and verification (V&V) of your product. Determine the process to ensure that a new system works as designed and that the design fulfills its intended function. Learn to develop and determine verification versus validation requirements using MOEs/MOPs/TPMs. Hands-on cases illustrate developing metrics, team/management structures, and executing V&V activities.

D. Gunther, 14 hrs, $795
Campus: Dec 11 – 12, 2018 | T, W | 8:30 am – 4:30 pm | C2319007
Online: D2319008

Also an elective for the Systems Test and Evaluation Certificate.
**Test and Evaluation Principles**

Learn how test and evaluation (T&E), acquisition, and requirements personnel integrate efforts to provide systems that perform as designed and required by the user. Grasp foundational concepts such as developing a team of key personnel, producing documents, and more. At the end of the course, you will be familiar with elements of a test program, test sites that will provide you the best data to support your test requirement and mission, and confidence to proceed with assurance in your role.

**Test Planning and Conduct**

Explore technology demonstrations, experimentation, and tests, all of which provide the opportunity to collect data to support both programmatic decisions, access Technical Readiness Levels (TRLs), and support the acquisition milestone determinations. Learn proper test planning and the conduct of those tests which are paramount to successful execution and evaluations. Learning will focus on initial planning techniques and issues, test plan development, rehearsals, test plan validation, test conduct, data collection, and after-action reviews.

**Requirements Development**

G. McPherson, 14 hrs, $795  
Campus: Aug 28 – 29, 2018 | T, W | 8:30 am – 4:30 pm | C2319003  
Online: D2319009

See Page 18. Also a core course for the Applied Systems Engineering Certificate

**Test Evaluation and Assessment**

Understand the planning, process, and products of system evaluation and system assessment through testing. Learn to build assessment plans and validation plans that map required system performance to test and analysis events. Understand the relationship between Modeling & Simulation (M&S) and test in a model-test-model approach, as well as in live-virtual-constructive environments. Learn the meaning and importance of operationally relevant environments as it relates to Technical Readiness Levels (TRLs) and how to assess threat and environmental realism for test design. Strategize how to evaluate reliability, availability, and maintainability (RAM).

**Elective courses (Choose One):**

**System Validation and Verification**

D. Gunther, 14 hrs, $795  
Campus: Dec 11 – 12, 2018 | T, W | 8:30 am – 4:30 pm | C2319002

See Page 18. Also a core course for the Applied Systems Engineering Certificate.

**Project Scope, Cost, and Schedule Management**

R. Steele, 21 hrs, $895  
Campus: Mar 26 – Apr 16, 2019 | T, Th | 5:30 – 8:30 pm | C2319018  
Online: D2519011

See Page 24. Also a core course for the Project Management Certificate.
FEDERAL CONTRACT MANAGEMENT ESSENTIALS CERTIFICATE

Learn the basic components of the Federal Government’s life cycle process in acquiring goods and services. Understand the roles and responsibilities of both the buyer and the seller in the acquisition and administration phases of Federal contracting. Study the key elements of Federal contract management such as “Contract Types”, which can then be readily applied to workplace contracting situations.

H. Cleaver, 40 hrs, $1295/$1245*
Campus: Oct 15 – 19, 2018  |  M – F  |  8:00 am – 5:00 pm  |  C2519005
Campus: Oct 28 – Nov 1, 2019  |  M – F  |  8:00 am – 5:00 pm  |  C2520001
Online:  D2519001

FEDERAL CONTRACT MANAGEMENT SPECIALIZATION CERTIFICATE

After you have learned about or experienced the basic elements of Federal Contract Management, you can explore current Federal contracting topics such as the ongoing changes to “Commercial Item Acquisition” in this Specialization course. Beyond those understandings, you will learn various contracting techniques such as “Small Business Utilization” that are time-tested in the Federal acquisition arena. Prerequisite: Completion of Federal Contract Management Essentials Certificate or equivalent Federal contract management experience.

H. Cleaver, 40 hrs, $1295/$1245*
Online:  D2519002

*NCMA Member Discount

Federal Costing Essentials

Do you know the consequences of failure to understand and comply with Federal Government costing rules and cost accounting standards? For Government contracting professionals, take the time to gain basic knowledge of these procedures and rules and how the process works to minimize the potential for problems. Learn about Government requests for “certified” or “uncertified” cost or pricing data in bidding processes. Upon course completion, participants will have a clear understanding of the necessity for consistency in costing and cost accounting practices related to bidding, recording, reporting, and invoicing costs (CAS 401), as well as appropriate cost isolations in company records (CAS 402). The Federal Acquisition Regulation (FAR), the Contract Pricing Reference Guides (CPRG), and selected Defense Contract Audit Agency (DCAA) documents are the foundation for this course content.

H. Cleaver, 14 hrs, $495
Online:  D2519014

Basic Life Support (Instructor-Led Training)

Basic Life Support (BLS) is an American Heart Association certification that focuses on what rescuers need to know to perform basic life support skills. After successfully completing this BLS Instructor-Led Training course, you should be able to perform high quality CPR and describe the technique for choking relief for an adult, child, or infant, as well as demonstrate the appropriate use of automated external defibrillator (AED) and barrier device skills. You will also be able to describe the importance of teams in multi-rescuer resuscitation. To complete course, students must pass BLS skills testing and a written exam.

BLS is designed for healthcare in both prehospital and in-facility environments. In-facility refers to healthcare providers who work in a hospital, clinic, or other healthcare facility including a dentist office, skilled nursing, and assisted-living facilities. This course is hosted in close partnership with the UAH College of Nursing to ensure compliance and best practices are met for new and returning nursing students who are required to maintain annual BLS certification.

Dates for upcoming BLS classes can be found at CPCS.uah.edu/BLS

*NCMA Member Discount

Federal Contract Management Essentials and Specialization Certificates satisfy requirements for the National Contract Management Association Continuing Professional Education.

The instructor is exceptional and is well-rehearsed in the subject matter. This course was beyond my expectations!

– Federal Contract Management Participant
Federal Proposal Management

In this highly interactive and document development-focused course, gather techniques for preparing successful Federal prime contractor or subcontractor proposals. Understand the pre-solicitation phase, and learn how to conduct the critical pre-proposal preparation phase. Learn about activities and considerations during the solicitation release and proposal team kickoff. Learn how to develop the various proposal volumes to be responsive in both Lowest Price Technically Acceptable (LPTA) and Best Value bidding venues. Identify proposal requirements that are best responded to with high impact graphics and ways to create them. Combine lecture and exercises to understand the realities of actual proposal preparation activities in a page-limited and time-constrained environment.

H. Cleaver, 35 hrs, $695
Online: D2519005

NEW Building Productive Teams

The morning session provides an opportunity for professionals to examine who they are and how they relate to their associates in the workplace. Attendees learn their distinct temperament (Blue, Gold, Green or Orange), gaining insight into their thought processes, leadership and communication style. The class then participates in interactive, fun group discussions and activities that highlight the important characteristics of each temperament. The afternoon session includes a Low Ropes Course designed to develop group cohesion and to teach leadership, teamwork and collaborative problem solving skills, continuing to utilize the Real Colors personality temperaments. Each initiative activity allows the group to work together as a team to reach a common goal and is followed by a debrief that allows participants to share observations and lessons learned and how to transfer them to their personal and professional lives. This is a hands-on course so comfortable attire and closed toe/closed heel shoes are required.

S. Kerby, 7 hrs, $395
Campus: Feb 27, 2019 | W | 8:30 am – 4:30 pm | C2519025

Effective Business Writing

Learn practical workplace writing strategies for developing documents that are clear, concise, complete, and correct. Topics include the professional writing process, audience awareness, document organization and design, and visuals. Learn to review key grammar, style, and sentence structure concepts that are essential to enhancing the readability of a document. Understand how to adapt messages to meet the needs of various audiences.

S. Gunn, 14 hrs, $595
Campus: Jun 18 – 19, 2019 | T, W | 8:30 am – 4:30 pm | C2519023

Employee Management and Leadership

Recruiting and retaining employees is the most important job that managers do in an organization. Learn best practices on finding, interviewing, and hiring a superior workforce. Your expectations of people and their expectations of themselves are the key factors in how well people perform at work. Gain knowledge to perform practices that keep employees motivated and inspired to develop and attain goals. Learn how to address employee behavior and prevent predictable decision-making errors. Become the successful leader who makes a serious difference in the work life of employees and your organization.

K. Burton, 14 hrs, $595
Online: D2519015

NEW Delivering Successful Briefings to Senior Leaders

Senior leaders are one of the toughest audiences a presenter will face. This interactive course will help participants plan and effectively deliver information and decision briefings that meet and exceed the expectations of their senior executive audiences. The class participants will deliver a briefing and receive feedback on content. The higher up the corporate ladder employees go, the more important effective briefing skills become. Position yourself for promotion, by learning to successfully make presentations to senior management.

V. Johnson, 7 hrs, $395
Campus: Apr 5, 2019 | F | 8:30 am – 4:30 pm | C2519024

Strategic Decision Management

Learn decision-making methodologies that influence alignment between the manager’s technical decision processes and the company’s organizational strategy. Discuss normative and descriptive approaches to strategic thinking. Explore how to structure strategic decision-making processes, and learn how to assess effectiveness with the performance measurement systems. Investigate links between strategy, organizational structure, and value chain with technical decision-making.

J. Fortune, 14 hrs, $595
Online: D2519016
**Earned Value Management Certificate**

Understand a highly effective project control system that uses measurement tools such as breakdown structures, network diagrams, schedules, budgets, and Gantt charts to ensure that the parameters of a contract and its projects or tasks are on track. Learn Earned Value Management (EVM) guidelines and requirements to meet Government contract regulations. Understand its value as an essential tool for project managers and technical leads in supporting proactive decision-making.

**Take the 3-course certificate series or take just one course.**

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**Earned Value Management Essentials**

Learn to measure project performance, determine project variances based on the comparison of work performed and work planned, and estimate the project’s completion cost and timeline. This course lays the foundation for novice specialists as well as helps refresh veteran Earned Value Management (EVM) practitioners in the tenets of work planned, accomplished, and actual work costs, as well as project forecasting. Discuss EVM terminology, formulae, and analysis. Apply methods learned through practical exercises and case studies demonstrating real world applicability to project cost, schedule, and technical performance.

*R. Hycoop, 14 hrs, $795*

**Campus:** Sep 17 – 18, 2018 | M, T | 8:30 am – 4:30 pm | C2519006

**Campus:** Oct 7 – 8, 2019 | M, T | 8:30 am – 4:30 pm | C2520003

**Online:** D2519007

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**Earned Value Management Analysis and Reporting**

Learn how to efficiently and effectively comply with analysis and reporting requirements. Explore detailed, practical methods to facilitate compliance regardless of contract size or complexity. This course will assist novice analysts building a solid foundation while serving as a refresher for more experienced analysts. Learn to establish variance thresholds and to use indices for predictive analysis. Create Variance Analysis Reports and become familiar with Contract Performance Reports and Integrated Program Management Reports. Practical exercises will be used to demonstrate formulae, methods, and techniques covering problematic areas.

*G. Smith, 14 hrs, $795*

**Campus:** Oct 22 – 23, 2018 | M, T | 8:30 am – 4:30 pm | C2519007

**Campus:** Nov 4 – 5, 2019 | M, T | 8:30 am – 4:30 pm | C2520004

**Online:** D2519008

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**Integrated Baseline Review Preparation and Execution**

Many Government contracts contain a requirement for an Integrated Baseline Review (IBR). Discover why this requirement exists and to whom it applies. Explore how the five risk areas may impact overall project outcome and how each is assessed for magnitude of potential impact. Learn how to prepare for IBRs, what participants’ roles are, how and when should an IBR be conducted, and what possible outcomes are? Investigate baseline discussion questioning techniques with Control Account Managers (CAM). This course is helpful for those who are being newly introduced to the IBR requirement, and also serves as a refresher for individuals with experience.

*J. Little 14 hrs, $795*

**Campus:** Dec 3 – 4, 2018 | M, T | 8:30 am – 4:30 pm | C2519008

**Campus:** Dec 9 – 10, 2019 | M, T | 8:30 am – 4:30 pm | C2520005

**Online:** D2519009

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**Life Cycle Logistics Management**

Gain an overview of all activities associated with the life cycle of a system, from requirements generation and acquisition to sustainment and disposal. This program provides a basic foundation for senior managers and executives who are responsible for overseeing system support processes and assuring ready capability. The curriculum can be customized based on the background, knowledge and experience level of the participants.

*Customized Training: 256.824.6015*
INTERIOR DESIGN CERTIFICATE

Visualize beautiful and functional surroundings that you create. Whether you are searching for new career skills or knowledge for personal use, this program is certain to provide useful content and creative ideas.

Take the 5-course certificate series or take just one course.

Course Materials:
Additional fees for textbooks and supplies may be required.

Interior Design Career Opportunities Include:
- Assistant to professionals including interior designers, contractors, or architects in the implementation of interior designs
- Sales reps for paint, carpet, lighting, furniture, or fabric stores
- Office furnishings and space planning suppliers, etc.

Building a Foundation in Interior Design

Learn the basics of design elements and principles that work together to create harmonious spaces through lecture, demonstrations and application examples. A comprehensive overview of color theory, furnishings, fixtures, finishes, the history of design and current design trends will provide the knowledge to develop aesthetically pleasing and functional interiors.

G. Huffman, 20 hrs, $375
Campus: Oct 9 – Dec 4, 2018 | T | 5:30 – 8:00 pm | C2519009*
Campus: Oct 8 – Dec 3, 2019 | T | 5:30 – 8:00 pm | C2520002*
*Class will not meet November 20, 2018 and November 26, 2019

Design and Architecture

Learn how architecture and interior design are interwoven and how architectural detailing makes a building unique. Explore residential and commercial architectural styles and types, including historical and contemporary design. You will be introduced to design history and theory, basics of construction, materials and finishes, universal design, sustainability, and building systems.

D. Bird, 20 hrs, $375
Campus: Jan 22 – Mar 12, 2019 | T | 5:30 – 8:00 pm | C2519014

SketchUp Your Design

Learn to build computer-generated models of interior spaces in this hands-on course utilizing Google SketchUp to convey your design ideas and boost your design capabilities. Practice placing existing model assemblies of windows, doors, and more, while viewing and developing interior spaces in detail.

Prerequisite: Fundamental experience with computers.

C. Green, 20 hrs, $375
Campus: Apr 2 – 25, 2018 | T, Th | 5:30 – 8:00 pm | C2519021

Applying Design Principles and Elements

Develop advanced design skills utilizing color schemes and patterns, furniture layouts, materials selection, and interior elevations. Large scale projects will allow for an in-depth study of interior details such as lighting, fabrics, windows, and flooring. Learn how to present design proposals and then how to successfully communicate with clients and contractors during the project. Prerequisite: Building a Foundation in Interior Design.

G. Huffman, 20 hrs, $375
Campus: May 7 – Jul 9, 2019 | T | 5:30 – 8:00 pm | C2519015*
*Class will not meet May 28 and July 2, 2019

Interior Space Planning

Instruction and practical hands-on training introduce you to the fundamentals of space planning and its application in solving design problems. Learn about scale, architectural drawing, and creative problem-solving. Discover how to convey your own design solutions. Prerequisite: Design and Architecture

D. Bird, 20 hrs, $375
Campus: Jul 23 – Sep 17, 2019 | T | 5:30 – 8:00 pm | C2519016*
*Class will not meet September 3, 2019

Please Note:
This program is not preparatory for the NCIDQ exam nor does it provide individuals with the credentials to be identified as a Registered Interior Designer, a title awarded only by the Alabama State Board of Interior Design.
Project Management Foundation

Good project management ensures that projects run smoothly and clients' expectations are met. Build a solid foundation of project management knowledge and ensure your projects are set up for success from the start. Aligned with the Project Management Institute’s (PMI®) framework, each course responds to the Project Management Book of Knowledge (PMBOK®) and focuses on the practical application of project management concepts, particularly in a Government/contractor environment. You will acquire knowledge and tools needed to manage your projects’ successful completion. **Prerequisite:** It is recommended to attend Project Management Foundation first or have equivalent experience, but not required.

**SAVE $400 by taking the 4-course certificate series or take just one course.**

### Project Scope, Cost, and Schedule Management

Was the project completed on time, aligned with the budget, and linked with customers’ requirements? Participants will become skilled with earned value measures, proficient with performance indexes, and build s-curve charts to interpret project trends. Gain the tools to monitor quality and measure performance. Learn scope controls with a WBS and components of deliverables. **PMBOK® Knowledge Areas:** Scope, Cost, and Time

- **R. Steele, 21 hrs, $895**
  - **Campus:** Mar 26 – Apr 16, 2019 | T, Th | 5:30 – 8:30 pm | C2519018
  - **Online:** D2519011
  - Also an elective for the Systems Test and Evaluation Certificate

### Project Quality and Risk Management

Performing good risk assessment is an essential requirement of a successful project management plan. Gain insight into assessment procedures and learn to apply them to decision-making situations. Focus on using a quality management plan and systematic quality controls to address issues and avoid costly reworking expenses. **PMBOK® Knowledge Areas:** Risk and Quality

- **C. Gardner, 21 hrs, $895**
  - **Campus:** May 2 – 23, 2019 | T, Th | 5:30 – 8:30 pm | C2519019
  - **Online:** D2519012

### Project Procurement and Contracting Management

Procurement and contracting have a strong presence in project management. Few projects are self-contained and require no contracting requirements. Understand the basic elements of contract, subcontract formation, and management and how they relate to project management activities. Learn about contract types and their influence on projects. Address contracting risks and complexities of contract administration associated with the goal of project completion. Learn how to prepare Statements of Work (SOWs) and how to bid and negotiate from a project perspective. Understand management aspects of both subcontractors and vendors. **PMBOK® Knowledge Areas:** Procurement and Stakeholder Management

- **H. Cleaver, 21 hrs, $895**
  - **Campus:** Jun 11 – Jul 2, 2019 | T, Th | 5:30 – 8:30 pm | C2519020
  - **Online:** D2519013
This one hour on-demand overview presentation is for anyone interested in learning more about becoming a certified project manager.

**Agenda:**
- An overview of the Project Management Institute
- The role of a project manager
- Expertise required to be a project manager
- The value of Project Management Professional (PMP®) and Certified Associate in Project Management (CAPM) certification
- Eligibility requirements to become certified
- Options for exam preparation

**Who Should Attend:**
- Those wanting to explore a career in project management by getting their CAPM certification
- Government employees preparing to work in the private sector
- Those wanting to learn the terminology of project management in the private sector
- Anyone involved in projects such as Project Managers, Program Managers, Quality Managers, Procurement Managers, Supplier Quality Managers, Finance Managers, Requirements Managers, Test Managers, Contract Managers, Engineering Managers, Manufacturing Managers, Construction Managers, IT Managers, Software Leads, etc.

**Textbooks Included:**
- The PMP® Exam: How to Pass on Your First Try

**Course Includes:**
- Additional project management knowledge not covered in the PMBOK® Guide but expected to be covered on the exam
- Key information from all chapters in the PMBOK® Guide
- Strategies for approaching exam questions
- Summary of important formulas and definitions
- Online PMP® exam simulator

**Who Should Attend:**
- Current project managers interested in getting the PMP® credential
- Government employees preparing to work in the private sector
- Those wanting to learn the terminology of project management in the private sector
- Anyone involved in projects such as Project Managers, Program Managers, Quality Managers, Procurement Managers, Supplier Quality Managers, Finance Managers, Requirements Managers, Test Managers, Contract Managers, Engineering Managers, Manufacturing Managers, Construction Managers, IT Managers, Software Leads, etc.

**Online On Demand Learning**
Register for an On Demand course at ANY time. Participants have one month to complete the course, or two months for IT courses and courses over 30 hours.

**FREE WEBINAR:**
**NEW** How to Become a Certified Project Manager

**ONLINE ON DEMAND**
This one hour on-demand overview presentation is for anyone interested in learning more about becoming a certified project manager.

**Agenda:**
- An overview of the Project Management Institute
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Customized executive development from UAH Professional Development Solutions will produce sustainable, high-performance results.

By conducting pre-event personality and strengths assessments, facilitating with high-level expertise and professionalism, using experiential learning techniques, fostering critical thinking, promoting a rich learning environment, and conducting post-event one-on-one executive coaching, we ensure individuals and teams apply the skills they learn in the classroom after returning to the workplace.

It is affordable, customized to your organization’s specific training needs and goals, as well as hassle-free—we do all the work!

Pre-Event Assessments
We offer several tools for assessing work and communication style, developing leadership skills, and building team effectiveness. Let us help your leaders achieve effective relationships and results that matter.

Learning Event
Our goal is to successfully and effectively meet your group’s development objectives. Choose any combination from the topics to the right to customize your specific program.

Post-Event Executive Coaching
One-on-one coaching sessions follow training to promote and support implementation of information for desired results.

I wish my training budget was larger so that I could use UAH for all my training needs! If you want to build a competent workforce, PD Solutions is the go-to training provider.
Policies

For a complete list of policies, visit CPCS.uah.edu.

Non-Credit Registration and Payment Policies
See page 1 for ways to register. Payment by cash, check, credit card, or written employer billing authorization is required at time of registration. Mail, fax, or email your company purchase order, tuition voucher, or other billing authorization to the CPCS Registration Office. Check with your organization, many employers’ tuition plans cover UAH PDS courses. You will receive confirmation after your registration has been processed. Please review your confirmation letter carefully for the latest course information. The registration fee for non-credit courses includes any required text, course materials, lab fees, and short-term parking permits unless otherwise noted.

Withdrawal Policy
Failure to participate in a course or program does not constitute withdrawal. Substitutions are permitted with prior notice. For a refund, the UAH CPCS Registration Office must be notified in writing at least three full business day prior to the course start date. Send notifications to PCSRegistration@uah.edu.

Online On Demand course withdrawal requests must be received prior to logging onto the course and no more than 10 business days from the initial date of registration.

Full Program Discounts will be forfeited with any course withdrawal. Full course fees will be charged for all courses completed and the course in progress, if applicable.

Campus Parking Regulations and Zoned Parking
UAH uses zoned parking. As part of registration, course participants will be issued a Commuter Parking Permit at the opening session. Please arrive 15 minutes early to allow time to hang your permit on your rear view mirror. Campus parking information and Zoning Maps may be found at UAH.edu/Map

Training Environment
Courses are presented in the CPCS Executive Training Center, on the second floor of Wilson Hall, unless otherwise noted. Computer technology courses are conducted in state-of-the-art, one-to-one computer labs. Classroom courses are held in rooms designed for the adult learner.

Course Cancellation and Inclement Weather
Non-credit courses are self-supporting and classes are subject to cancellation if there is insufficient enrollment. In the event of course cancellation, participants will be notified in a timely manner and will have the option of applying fees paid to another course or receiving a course fee refund.

UAH PDS classes will not meet if UAH closes due to inclement weather. Check local radio/television broadcasts for closing announcements.

Certificate Program Completion
Participants must complete all of the certificate program courses in a professional field within a five-year period. Upon completion of the final course, submit a Certificate Completion Form to receive an overall certificate. If a certificate program is updated or retired during this five-year period, the PDS staff will work with active participants to provide the best alternatives for program completion.

Acceptable Proof of U.S. Citizenship
For select courses, participants must be U.S. citizens and provide verification of citizenship. Visit CPCS.uah.edu/Citizenship for more details.

Tax Deduction
Treasury regulations may permit an income tax deduction for educational and training expenses (registration fees, travel, meals, and lodging) undertaken to maintain and improve professional skills.

Students with Disabilities
UAH Disability Support Services (DSS) provides special accommodations for students with disabilities. Contact DSS at 256.824.1997 or uah.edu/dss at least one month prior to the start date of class to allow advanced preparation. Official documentation of stated disability is required.

Mistakes
UAH CPCS shall not be held responsible for misprints in printed or digital media. We apologize for any inconvenience.

Continuing Education Units (CEUs)
CEUs are nationally recognized non-academic credit for professional development and granted for professional development courses. UAH PD Solutions (PDS) courses meet requirements for providing CEUs.

CEUs provide a permanent record of an individual’s educational accomplishments in an organized, continuing education experience under responsible sponsorship, capable direction, and qualified instruction. UAH’s use of the CEU follows the accepted criteria and guidelines established by Southern Association of Colleges and Schools Commission on Colleges (SACSCOC), which complies with internationally recognized standards of The International Association for Continuing Education and Training (IACET).

Successful course completion requires participants to attend 80% of scheduled class meetings (and complete associated exams or projects, if applicable). The non-credit course grading system is Pass/Fail. Participants receive a certificate or letter of completion indicating the number of CEUs earned. Individual CEUs earned through CPCS are recorded in the attendee’s name. A transcript is available for $5 through the CPCS Registration Office.

One CEU equals 10 clock hours of instruction. Please note the following conversion rates into Continuous Learning Points (CLP), Professional Development Hours (PDH), Professional Development Units (PDU), and Certified Professional Education Units (CPE):

One CEU = 10 CLP, PDH, PDU, or CPE.

To determine whether CEUs may be applied toward professional certification, licensing requirements, or other required training or continuing education hours, consult your training department or licensing authority.

Defense Acquisition Workforce
Defense Acquisition Workforce members must acquire 80 Continuous Learning Points (CLPs) every two years from the date of entry into the acquisition workforce for as long as the member remains in an acquisition position per DoD instruction 5000.66. Members are encouraged to set a goal of achieving 40 CLPs within any 12 month period or the mandatory requirement of 80 CLPs within two years. With supervisor approval, attendance in UAH PD Solutions courses may be used towards CLP requirements.

For a complete list of policies, visit CPCS.uah.edu.
ALABAMA STATE BOARD OF PUBLIC ACCOUNTANCY (ASBC)
Many certificates and courses are approved for ASBPA Certified Professional Education (CPE) units. 1 hour of class time is equal to 1 CPE unit.

BOEING LEARNING TOGETHER PROGRAM
As a preferred provider with The Boeing Learning Together Program, UAH CPCS offers quality educational opportunities to enhance job performance and improve skill sets. Our courses address the professional needs of the aerospace and defense industry and provide you with the knowledge, skills, and hands-on experience to succeed.

COMPTIA®
CPCS is a CompTIA Academy Partner. Exam preps eligible for benefits are: A+, Linux+, Network+, Security+, and CASP®.

EC-COUNCIL
UAH CPCS is now an EC-Council Accredited Training Center. Courses eligible for benefits: Certified Ethical Hacker (CEH™) and Certified Network Defender (CND)

EDASSIST™
Partnered together, EdAssist and UAH CPCS can help you advance your education and take your career to the next level. Enjoy partnership benefits such as 5% off the regular registration rate and an easy registration process, with no application fee.

THE INTERNATIONAL COUNCIL ON SYSTEMS ENGINEERING (INCOSE)
INCOSE Huntsville Regional Chapter and UAH CPCS partner to offer Certified Systems Engineering Professional exam preparation. Systems Engineering and Test and Evaluation programs satisfy the requirements for INCOSE Professional Development Units (PDUs). Programs eligible for the INCOSE discount are: CSEP Exam Bootcamp. Call 256.824.6010 to register.

INFORMATION SYSTEMS SECURITY ASSOCIATION (ISSA)
UAH CPCS is proud to offer North Alabama Chapter ISSA members (NACISSA) a 10% discount on select cyber-related and information systems security courses: A+, Security+, Network+, Linux+, CND, CEH™, CISSP®, CASP™, and CAP®. Call 256.824.6010 to register. To learn more about NACISSA membership, visit nacissa.org.

NATIONAL CONTRACT MANAGEMENT ASSOCIATION (NCMA)

THE UNIVERSITY OF ALABAMA IN HUNTSVILLE
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Participate in programs wherever you have a computer and internet connection. Audio/video and personalized support through the Canvas Learning Management System provide a classroom-like experience. Access all the digital tools you need in one easy place. Participants have one month to complete a course or two months for IT courses and courses over 30 hours. Acquire real-world skills that advance your career while fulfilling your professional commitments.

CERTIFICATES
- C++, Java, and Python
- Federal Contract Management
- Earned Value Management
- Master Programmer
- Modeling and Simulation
- Project Management
- Rocket Propulsion
- Systems Engineering
- Test and Evaluation

SHORT COURSES AND EXAM PREPS
- A+, Network+, and Security+
- HTML5 and CSS3
- Federal Proposal Management
- JavaScript
- Missile System Fundamentals
- Monte Carlo
- PMP® Bootcamp
- R Programming
- Strategic Decision Management

System Requirements: CPCS.uah.edu/OnlineLearning

Call 256.824.6940 for more information.

1. Wilson Hall
2. Bevill Center
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Parking areas are highlighted in white.
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Benefit from quality administrative and instructional support from planning to course completion and beyond. Let us help you make your job easier!

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Select from traditional classroom, online, or blended program formats.

Experienced Instructors
Gain valuable knowledge through specialized curriculum and quality instruction delivered by practitioners who are experts in their fields.

Collaborative Hands-on Learning
Build new skills and foster critical thinking through the integration of theory into practice using interactive lectures, case studies, assessment tools, and hands-on applications.

Unlimited Course Topics
Choose from existing course offerings, modify course content to your specific needs, or let us assist with developing new curriculum targeted to fit your organizational needs.

Check out programs listed inside, on our website, or set up an appointment to learn more about customized training!

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