

Curriculum Vitae

Robert Frederick, Jr.

B.S., M.S., M.S., PMP (PMI 1371487)

Instructor: Houston Community College

Cell: 832-746-6800. Office Phone Number: 713-718-6587

Email: Robert.Frederick@hccs.edu

Summary

Faculty at **Houston Community College**: Developmental Mathematics, Continuing Education, and Digital Information Technology. 2013- present.

Currently teaching in the Programming, Gaming, and Networking departments.

Also teach the project management series for Continuing Education where I developed three new CTLE certified project management courses for use with the Canvas LMS.

Consistently rank as *Effective* and *Highly Effective* for overall teaching efficacy on HCC's EGLS3 (Evaluation for Greater Learning Student Survey System).

Software Skills

Canvas LMS (Learning Management System)

Microsoft Office Suite – expert level: Word, Excel, PowerPoint, Access, Outlook, Project, Visio, and Publisher.

Computer Languages: C++, Python, VBA, Fortran, BASIC

Credentialed Departments

HCC Digital & Information Technology, Computer Science. Sean Otmishi, Dean
Southwest – West Loop Campus 5601 W Loop S.

HCC Developmental Math Department. Timor Sever, Dean
Southeast - Eastside Campus 6815 Rustic St.

HCC Continuing Education Department. Marylouise Young, Program Director, CE Business
Southeast - Eastside Campus 6815 Rustic St.

Education

- M.S. Engineering Project Management, University of Houston-Clear Lake 2010
 - Capstone project, “*Wind Power Forecasts with Focus on the U.S. Markets*”
- M.S. Software Engineering, University of Houston-Clear Lake 2002
 - Capstone project, “*Systems Engineering Foundation for a Train Simulator*”
- B.S. Bioengineering, Texas A&M University-1986
- Post Baccalaureate studies: Graduate mathematics, University of Houston Downtown

Relevant Experience

- Full Time Instructor – Houston Community College, Aug 2020 – present
- Temporary Full Time Instructor – Houston Community College May 2019-Aug 2020
- Adjunct Instructor at Houston Community College, Aug 2013-May 2019

- Credentialed in the following departments:
 - Digital & Information Technology, Computer Science
 - Development Mathematics
 - Department of Continuing Education – Business: Project Management

Educator/Instructor

Rubric	Number	Course Name
BCIS	1305	Business Computer Applications
BMGT	1009	Information and Project Management
BMGT	1021	(PM.2.TxWF) Successful Project Management
BMGT	1021	Introduction to Project Management
BMGT	1091	(PM.1.TxWF) Project Management Fundamentals
BMGT	1091	(PM.3.TxWF) Project Management Essentials and Best Practices
BMGT	1091	Business Administration and Management - <i>Project Management Essentials and Best Practices</i>
BMGT	1091	Business Administration and Management – <i>Project Management Fundamentals</i>
BMGT	1091	Business Administration and Management – <i>Successful Project Management</i>
BMGT	1091	Information and Project Management
BMGT	2006	Business Administration and Management - CAPM/PMP Examination Prep
BMGT	2006	General Business & Leadership – Project Management Examination Prep
BMGT	2006	Specialized Training in General Business and Leadership – Project Management Professional (PMP) Examination Prep
COSC	1436	Programming Fundamentals I (Python)
COSC	1437	Programming Fundamentals II (Python)
GAME	1379	Introduction to Game Programming using C++
INEW	2332	Comprehensive Software Project
ITMT	1537	Administering Windows Server OS Software
ITSC	1018	Introduction to Project Management Software
ITSE	1380	Coop Education-Computer Programming/Programmer
ITSE	1436	Coop Education-Computer Programming/Programmer
MATH	0106	Fundamentals of Math
MATH	0306	Foundations of Math I
MATH	0308	Foundations of Math II
MATH	0309	Introductory Algebra
MATH	0310	Math for Business and Statistics
MATH	0312	Intermediate Algebra
MATH	0409	Foundations of Mathematics
ITMT	1358	Microsoft Windows Server 2016

Academic Development, Activities, and Honors

- HCC Faculty Ambassador for *National Science Foundation Louis Stokes Alliance for Minority Participation (LSAMP) STEM program*, Fall 2020
- One of four faculty members chosen as faculty leaders in the *National Science Foundation Louis Stokes Alliance for Minority Participation (LSAMP) STEM program*, Spring 2020

- Developed three new courses in Project Management for the Department of Continuing Education based on the release of PMBOK 6th ed from Project Management International. The courses obtained CTLE (Center for Teaching & Learning Excellence) certification. The new project management courses were developed with extensive content on Canvas, a first for the project management series.
- Piloted new online curriculum from zyBooks in several computer science classes covering Python and C++.
- Participated in Advanced Python Training Summer for HCC faculty Summer 2020
- Developed new, or enhanced existing, course material for each course including custom animated power point slides, interactive spreadsheets, and lectures.
- Obtained CTLE online teaching certification
- Graduate: HCC's Adjunct Academy
- Learning Innovation Certificate Series: Bloom's Student Engagement Series
- Recipient: CTLE Certificate of Learning and Innovation 2018
- Recipient: CTLE Certified – 21st Century Exemplary [sic] Faculty/Faculty Leaders Certificate of Learning and Innovation 2015
- Presenter at the 2015 CTLE & Student Engagement Innovation Symposium: "From Chaos to Clarity; From Confusion to Comprehension" which discussed the use of mind-mapping and knowledge-mapping techniques to help students grasp complex topics.
- Participant: Mathematics Program Committee 2014
- Recipient: Certificate of Teaching Excellence. The 6th Annual Faculty Awards and Student Engagement Innovation Symposium DESIGN THINKING For Learning Innovation
- Submitted a winning proposal to develop a special mathematics laboratory project for the West Houston Institute.

Corporate Experience

SQL Vanavar, Senior Consultant, Houston, TX

- Project Management
- Systems Integration Test Manager
- Systems and data analysis
- Data systems and database design
- Business Process Analysis

Boeing and McDonnell Douglas Aerospace, Johnson Space Center, Houston, TX

International Space Station (ISS)

- Flight Crew Systems (FCS)
- Crew Health Care system (CHeCS)
- Vehicle Master Database (VMDB)

Other Professional Development, Awards, and Certifications

Project Management International (PMI) PMP certification 2011

Six Sigma Green Belt designation 2011

McDonnell Douglas Aerospace Superior Quality Performance Award 1997

Texas Board of Engineers – Fundamentals of Engineering/EIT 1986