If you've recently joined the faculty of Embry-Riddle or if you've been onboard for 30 years, I think we would all agree, change is the norm within our Worldwide Campus.

When I think about the rate of change within our Campus, it actually makes sense to me.

Consider this, we serve the most technologically advanced industry in the world and we do it on a distributed global stage leveraging technology enhanced traditional and virtual classrooms; change would seem to be a prerequisite for success in this environment.

Just within the last year we've seen change related to improving quality such as the Multi-Modality Template (MMTs), change to improve delivery such as an EagleVision update, and even today we are looking at updating something as fundamental as our learning management system (LMS) for the first time in 10 years. With all of this change going on it might be difficult to identify a constant. I would argue there are constants within the academy; I refer to these as the fundamentals.

Over the last few months I've been focusing on two of these fundamentals. The first and arguably the most important fundamental is teaching in a way that allows our students to achieve the course learning outcomes (LOs). This is critical and true for each of our courses. Each course within our degree programs has a...
purpose. This purpose is to provide our students the knowledge necessary for them to obtain the degree program outcomes. These program outcomes are what we have vetted through industry and represent the value graduates of our programs bring to the workforce. Everything is connected and for a purpose. When faculty deviate from these course LOs we are putting the students at a disadvantage and threatening the value of an ERAU degree. When achieving these LOs becomes the focus of everything we bring to the classroom we are setting the student up for success during their capstone and to validate our commitment to industry. The second fundamental deserving focused attention is course contact hours. This one is directly related to the quality of our programs. Each of us as faculty should take the time to ensure our students are gaining the knowledge they need to be successful as graduates. This is more than just ensuring students can successfully pass the final assessment within the course but instead focused on truly understanding and achieving the course outcomes. We are not the cheapest, we are not the fastest, but we have a real opportunity to be recognized as the best quality aviation/aerospace degrees in the world. This commitment to quality demands our time and energy as faculty. Although I live in Vegas I'm not a betting man, but if I was, I'd bet dollars to donuts we'll face more change over the next year. We will navigate these changes and continually improve the quality of our programs by remaining focused on the fundamentals; investing the time and energy to ensure our students obtain each learning outcome from each course they take while completing a degree from our great institution. The aviation industry we all love deserves nothing less.

Thanks for all you do!

“We serve the most technologically advanced industry in the world and we do it on a distributed global stage leveraging technology enhanced traditional & virtual classrooms; change would seem to be a prerequisite for success in this environment.”

2014 Worldwide Graduation
Daytona Beach, FL
Aviation Accreditation Board

by Dr. Andy Anderson, Associate Dean, College of Aeronautics

If you have taken a look at the College of Aeronautics – Worldwide Organization in ERNIE lately, you may have noticed a link to “AABI (Candidate Status)”.

The Aviation Accreditation Board – International (AABI) is a specialized accrediting body of educational institutions and/or their professional programs that achieve and maintain a level of performance, integrity and quality.

Like other specialized organizations accrediting national programs that prepare students for a profession or occupation, AABI is closely tied to its industry leaders and professional associations. Accreditation assures students and prospective employers that an educational degree program has met stringent industry standards of quality. It ensures that graduates have received quality training and education and are capable of performing a broad range of professional responsibilities.

Over the last several years, the Worldwide Campus and the College of Aeronautics has been pursuing accreditation with AABI. In March of 2013, the Worldwide Campus submitted the Bachelor of Science in Aeronautics degree program for accreditation and was formally accepted and entered into “candidacy” status.

Over the next year, a comprehension Self Study was conducted, taking an in-depth look at the academic and administrative performance of the Bachelor of Science in Aeronautics, including curriculum, assessment, faculty, students, and industry. The Self Study and all supporting documentation was submitted to AABI in March of this year and posted in the College of Aeronautics – Worldwide Organization.

As part of the accreditation process, a total of 15 locations will be visited this summer by AABI, culminating in a team visit to Worldwide Headquarters in August. Site visit locations include campuses in the High Desert, Hawaii, Seattle, Virginia and Florida areas. Final determination for granting accreditation will be announced at the Winter AABI conference in February of 2015.

Working on the accreditation process has been a tremendous experience. It has truly been a team effort from top to bottom, including University and Worldwide Campus leadership, administrators, faculty, and students, all playing pivotal roles in accreditation.

Take some time to look at AABI’s web site and the Self Study.

http://www.aabi.aero/

Feel free to contact the College if you have any questions.
Around Graduate Studies

by Dr. Ian McAndrew, Chair, Department of Aeronautics Graduate Studies

It has been over two months since we all met in Houston for the first College meeting and already it seems something from the distant past. However, the trip to NASA was a highlight not only of the week but my time at ERAU. To see first-hand those historical places that changed the world will forever be imprinted on my memory. I am sure all will agree that we owe thanks to those that arranged this trip.

At the end of April I went to the European graduation near Frankfurt where the guest speaker, Dr E. Giemulle, delivered an interesting and informative speech on Aviation law. There were almost 40 students walking and this smaller sized event gives one the opportunity to talk first hand with those we have taught and see the growth in their academic abilities. The following week I was in Daytona Beach for the main Worldwide graduation where almost 400 students walked. Here one can see the vast scale of our university and its total influence on the lives of our students and joy it brings to their proud families. It always impresses me that ERAU has over 100,000 graduates now and the vast majority of these are Worldwide students, we really do reach all the corners of the globe.

It will be summer soon and if you are going on vacation, then have a great time. For the faculty who will be teaching, I hope you have a chance to rest and relax at some stage. In September we will all meet again in Orlando at the Worldwide conference. I am lead to believe that we will have half a day as a College and department. I would ask that you start thinking about this time slot and any general aspects that could be discussed that benefit all. Please let me know before any plans are finalized.

Moving forward we have a busy year ahead in the department and if successful this will take our department and the college forward to an even higher level. Dr. Terwilliger is getting all the pieces together to launch the master’s degree in Unmanned Systems and Dr. Balog is developing a master’s in Human Factors that if approved will start fall next year. In addition Dr. Worrells is developing a fully online PhD in Technology. This too will be presented before the Board of Trustees, and if approved, catapult our department to yet another level. I will be asking you that have skills and experience to assist in these processes. It is indeed an exciting time. Have a great summer and look back on our first year that is accepted by all as a success!

“Moving forward we have a busy year ahead in the department and if successful this will take our department and the college forward to an even higher level.”
Distributed learning via multiple modalities has become an accepted approach for pursuing college degrees and more programs are continually being offered. In engineering and other technically oriented courses distributed learning works well for communication of basic information related to mathematics and other basic concepts. However, it still lacks the element that comes with a traditional laboratory since these are typically not available to online/remote students. While this can be overcome to some degree through arrangements with local institutions and remote laboratories, it is by no means a global solution since it is not available to everyone all of the time.

There are some solutions available to address this issue. A cursory search of products reveals some small-scale laboratory options and software packages that can simulate basic physics principles, for example. These are solid approaches and will

“"A simulation, called the Crash Lab, is being integrated into the COA’s Aviation/Aerospace Accident Investigation and Analysis course."

It takes advantage of advanced graphics similar to many state-of-the-art video games, such as Xbox, to help the student investigate a transport aircraft accident scene via an avatar.”
meet basic learning objectives required by technical courses, but they do not offer the break from traditional learning strategies that may be enabled by a technology-rich learning environment. Simulation and Virtual Reality (VR) technologies may provide breakthrough learning capabilities and also help us better prepare our students to enter the highly collaborative and connected work environment they will enter after graduation.

Current & emerging research within the Engineering Science Department is exploring and implementing these ideas. A simulation, called the Crash Lab, is being integrated into the COA’s Aviation/Aerospace Accident Investigation and Analysis course. It takes advantage of advanced graphics similar to many state-of-the-art video games, such as Xbox, to help the student investigate a transport aircraft accident scene via an avatar. Other work beginning within the department involves the use of VR technology to enable more immersive and collaborative engineering based laboratories. While these efforts are at their infancy in implementation and exploration, they represent a radical departure from traditional techniques for distributed learning. It is expected that these techniques will not only help meet basic learning objectives currently in place but can open the door for new learning strategies by enabling students to use their own imagination to explore technical concepts.
Industry Advisory Board Meets in Chicago in May.

The Embry-Riddle Aeronautical University - Worldwide Industry Advisory Board was created in June 2008. The primary role of the Board is to provide advice and guidance to Embry-Riddle Worldwide on course content and programs, ensuring they are relevant and meet the needs of today’s aerospace leaders and business professionals.

http://worldwide.erau.edu/about-worldwide/industry-advisory-board/index.html

Touring United Airlines Control Center in Chicago
Calendar Events

Masters of Science in Unmanned Systems, Associate of Science in Engineering Fundamentals, Bachelor of Science in Engineering Technology, BSA – MAS 4+1 launching this summer.

San Diego Graduation  June 15th
COA Leadership Retreat  June 24th - 25th
AABI Conference  July 14th - 18th
Farmborough Air Show  July 14th - 18th
AABI site visit  July 23rd - 24th
College Faculty Meeting  July 31, 5pm PT
College Faculty Meeting  August 1, 9am PT
College Faculty Meeting  August 2, 10am PT
AABI WW HQ site visit  Aug. 11th - 12th
Worldwide Conference Orlando  Sept. 23rd - Sept. 26th
Wings & Waves Air Show  Oct. 11th - Oct. 12th
Industry Advisory Meeting  Oct. 15 - Oct.16th
Faculty Tips!

Assisting Students with Blackboard

The link is in ERNIE in the Student Services Tab under Academics>Blackboard Guides and Tutorials>Support and System Requirements.

For additional Blackboard training for faculty the link is in ERNIE in the Faculty Services Tab under Blackboard>Supplemental Training

Eagle Vision Engagement Series

Creating an Interactive Community:

- Tuesday, June 10th at 10 am ET
- Tuesday, June 10th at 8 pm ET
- Thursday, June 12th at 2 pm ET

This event can be attended by choosing one of the links below:

http://de225.sabameeting.com/main/Customers/embryriddle/ enter EVENT ID: RLT555757

EV Engagement Part 3

CTLE

The Rothwell Center for Teaching and Learning Excellence at the Worldwide campus is your personal arena for professional enhancement. https://ernie.erau.edu/portal/page/portal/faculty/worldwide/ctle
Faculty Senate Representatives

Dr. Clint Balog ........................................ balogc@erau.edu
Scott Burgess ................................. burgesco@erau.edu
Dr. David Hernandez ....................... hernad17@erau.edu
Dr. David Ison ............................... isond46@erau.edu
Jeff Jennings (Adjunct Faculty Representative) • jenni871@erau.edu
Dr. David Lowe .............................. lowe7a4@erau.edu
Dr. Katherine Moran ...................... morank@erau.edu
Dr. Todd Smith .............................. smitht39@erau.edu
Dr. David Worrells .......................... worrelld@erau.edu
Congratulations 2014 ERAU Graduates!

Congratulations to Dr. Curt Lewis who successfully defended his dissertation.

Send us your photos, stories, events, so we can feature your successes in the next COA newsletter. We welcome any comments, corrections or suggestions.

Please send them to stenbers@erau.edu