## Android



# Please Download ERAU VR Crash Lab



## ERAU Mobile VR - Crash Lab

Pinnacle Solutions Inc. Educational

### E Everyone

Add to Wishlist

Install

## ERAU Mobile VR - Crash Lab 4+

**Embry-Riddle Aeronautical University** 

Free



# EMBRY-RIDDLE Aeronautical University FLORIDA | ARIZONA | WORLDWIDE

# Creating a New Rhythm: Creating a Campus Environment Through Technology



## Embry-Riddle Aeronautical University

Embry-Riddle Aeronautical University is an independent, not-for-profit university. The University serves culturally diverse students seeking careers in aviation, aerospace, engineering, technology and related fields. Two residential campuses in Daytona Beach, FL, and Prescott, AZ serve traditional students and our Worldwide Campus serving a mix of traditional and non-traditional students.

Our Worldwide Campus provides instruction through a globally recognized learning system that leverages online and face-to-face delivery methods and a network of 140 education facilities designed to support student advancement in the U.S. and abroad.

The university's tradition of educating service members began in 1970 at Fort Rucker in Alabama and has grown to include base locations in Europe, the Middle East, Japan and South Korea.

The Worldwide Campus currently serve more than 24,000 students. App. 17,000 students are either active-duty military or student veterans.







Albuquerque Anchorage Andrews Astoria Atlanta Barksdale Battery Creek Beale Beaufort Buckley Camp Lejeune **Camp Pendleton Camp Smith** Charleston Cheyenne China Lake **Clearwater Clovis Colorado Springs Columbus** Corpus Christi Crestview Davis-Monthan Dayton Dyess Edwards El Paso Elizabeth City Everett Fleming Island Fort Bragg Fort Campbell Fort Eustis Fort Huachuca Fort Lauderdale Fort Richardson Fort Rucker Fort Walton Beach Fort Worth Fort Worth -Alliance

Greensboro Greenville Hartford Holloman Honolulu Houston Hunter Huntsville Hurlburt Field Indianapolis Inland Empire Jacksonville Kaneohe Keesler Langley Las Vegas/Nellis Laughlin Lemoore Little Rock Los Angeles Louisville Luke McConnell McGuire Memphis Miami Minot Mobile Moody Mountain Home N. Charleston New Orleans Norfolk North Island Northern Utah Mayport Oakland Oceana Offutt

Okaloosa **Oklahoma** City Orlando Palmdale Patuxent River Pensacola Phoenix Mesa Phoenix Sky Harbor Portland Robins Rockford San Antonio San Diego Sand Island Savannah Schofield Barracks Schriever Seattle Seymour Johnson Sheppard Space Coast Spokane St. Petersburg Tacoma Tampa Travis Tyndall Ventura Victorville Whidbey Island Worldwide Online Wright Patterson







# Undergraduate Degree Programs





# Graduate Degree Programs









**Discuss why we** had to evolve and totally change our infrastructure

Explain individual initiatives within our WRAP Initiative

# Presentation Outcomes



Demonstrate how a holistic virtual enterprise is benefiting our students

Discuss a few of our virtual labs and provide a hands on demonstration



## **Our Evolution**

- The explosive growth in distance education is changing the global higher education landscape.
- Within the United States alone in 2016, over 6,300,000 students took at least one online course.
- Almost one out of three (31.6%) college students take at least one class online and these numbers are growing year to year (Seaman, Allen, & Seaman, 2019).
- At Embry-Riddle's Worldwide Campus we've seen a very similar transformation, our enrollment went from 9% virtual in 2004 to 91% in 2018 which posed an enormous challenge for us:
  - How do we evolve our infrastructure from 140 campuses delivering face-to-face coursework to a primarily virtual campus that guarantees our students every single necessity that they would have at a traditional campus?



## WRAP Initiative

We implemented several technology-based solutions and enhanced support structures to address the multiple needs of our students through our Worldwide Retention, Affinity, and Persistence (WRAP) initiative.

These immersive components include:

- Incorporation of virtual labs into courses through a centralized virtual hub (with mobile app)
- Creation of 29 individual academic advisor webpages
- Implementing an Advisor for Life
- Virtual new student orientation
- Virtual student readiness and resource course
- Personalized degree maps for students
- Virtual new student on-boarding (Eagle LaunchPad)
- Virtual career services
- Virtual community



EMBRY-RIDOLE ONLINE -----

## YOU'RE A PART OF THE LEGACY



Sofia Barry

Introduction Activities Advisory DM12264314 accradym@erail.edu Webpage.

ERNIE

### **Inancial Al**

Veteran Allairs

IT Support

mpus Catale

**Career Service** 

Canvas Intro Course

Dear Arry, congratulations on your admission to mbry-Riddle Amonautical University, Workter am your point of contact at the University and will sist you with maching your soudents: goins. Please moles the important information below and contact me with any questions. Also, please note your blude 60 number 1254567 for any future correspondence.

Welcome to ERAUI

Sincerel

Sola

### Mandatory Orientation

Before you can be enrolled, you will need to complete your new student orientation. You will want to complete this at your earliest convenience so if obes. not hold up your first enrolment. You can access your orientation by clicking here.

### Academic Advising

I am available to assist with anything you might need. Please bookmark and review my webpage for easy access to helpful resources.

### Academic Requirement Report

In 5-7 business days your official transfer credit evaluation will be completed by the Registrar. I will contact you via phone at this point.

### New Student Checklist

You can click here to access your checklist that will help prepare you for and expedite your first enrollment with ERAU.

### Course Planning

A Degree Map or Student Success Plan will be created for you following the completion of your Academic Requirement Report. This document provides personalized course suggestions for your program. I will be calling you shortly to help with enrolling you in your first counsel Please review our online catalog so that you have your course preferences ready.

### ERAU Student Email Account

Make sure to check your ERAU student email account regularly and notify rive if you are unable to access your email account.

" Communistion - the human connection - 44 the key to personal and meer somess' Foul & Mape -



## **Immersive Advising** Advisor for life





### Why Embry-Riddle Online?

In 1971, Embry-Riddle Aeronautical University became one of the first to offer distance learning. Today, our private not-for-profit accredited university continues to raise the bar.



Flexible schedule

Our online degree programs feature multiple start times throughout the year, with 12 undergraduate and 10 graduate terms.

Experience We have decades of experience with new high school graduates, community college transfers, active servicemen, servicewomen and veterans who need flexibility for their work or family environment.

Your own plan

A personalized degree map will be provided to outline your end goal and the steps required to graduate on time, regardless of your other obligations or location.

Show your school spirit with this decal!

I'll help

you stick

to your

plan!



- Log into your ERNIE account: Secure funding: Activate your account at ernie.erau.edu. On ERNIE you will have access to your email, Campus Solutions Student Center and online course schedules.
- Complete the New Student Orientation: · Log into ERNIE and locate Tools, then click "All Tools" at the bottom
- of the list. Under All Tools, select "Canvas" (Students). Enter the New Student Orientation ourse from your Dashboard.
- Review your academic equirements report: . Log into ERNIE and select

Campus Solutions." Under "Academics," select "Academic Requirements" and run

the report transfer or advanced standing credit applied. Available soon after admission, this report lists courses needed complete your degree and any

transfer or advanced standing



ofia Barry: Amy, thanks! Feel free to add your pin to the map :)

0:08:24/0:39:33

- · Ask me to review your different funding options which may include payment plans, federal financial aid, military tuition ssistance, veterans benefits and employer assistance. · Eligible students should complete the Free Application for Federa
- Student Aid (FAFSA). Check degree map and course schedules: Review the degree map I created for you to assist with course
- Log into ERNIE and select "I want to See Online Course Schedules or contact me directly to discuss online and local course offering Review the Academic Catalog for course descriptions and

Enrollment: · Contact me to assist with your first enrollment.

planning and registration.

prerequisites.

EMBRY-RIDDLE WORLDWIDE Admissions & Financial Aid Degrees & Programs Online Learning On-Compar Apply Today + Request Info + Call: 500-552-5707 + Chat Now

Sofia Barry Graduate Advisor for EG, 1



Contact Me

### About Sofia



- degree map that will halp you alay on
- row to get started with DRAC, what respect to complete your degree, he



Inline Campus Student Spotlight

### **Upcoming Events**

30 20 9 2 NT HEIRS WILTER SECONDS 2/1 Ouring Dromes for Insp January Start Term 2/16 February Term Start Graduation

151 16 14 2

IWS HOURS WALTES SECONDS Commencement, Daytons Beach

- 1/1 January Term Sunt 1/11 Superior Aerospace Leadership Webmar
- Attending #WWER402018\* Be sure to apply for graduation by Petruary 28, 2018.
- Encoding of the state in the state of the Database of the State
- Graduate Advisor is Bethany Alexander





Hap Satellite Help active 57 Gen: I can here you Gen: hear\* ethany Alexander: Let's give the others another minute to log on and then we vill go ahead and get started.

## **Virtual Connection from Day 1**

Eagle Launchpad Slides.pptx

## WELCOME TO EAGLE LAUNCHPAD



**Renée Peter** Director of Undergraduate Online Advising



Bethany Alexander Undergraduate Advisor

Matthew Faulk

Undergraduate

Advisor

Michelle Crique Undergraduate Advisor









Sherry Mauraides Undergraduate Advisor



**Roth Britton** Graduate Advisor



Sherry Watson Graduate Advisor



# **New Student Orientation**







Welcome



# VIRTUAL CAREER SERVICES



Meeting Layouts Pods Audio

A

Τ

 $\Box$ 

5

C

<

### Jane J. Smith

動 - 🏮 - 🧕 - 🛃 -

P: (407) 968-6381

### OBJECTIVE

I'm seeking to leverage my knowledge and 2+ years of experience working within aeronautics to become a valuable asset to Lockheed Martin.

### EDUCATION

Full Sail University, Winter Park, FL Leadership/Management 6 month program · Nominated by the Executive Vice President

Valencia Community College, Orlando, FL Associates of Arts, 2005-2007

· Dean's List

-

Diploma, 2000-2004 · Honors student

University of Central Florida, Orlando, FL

Bachelor of Science, Psychology, 2010-2011

Dean's List

Newspaper Writer/Photography/Graphics

Oviedo High School, Oviedo, FL

### PROFESSIONAL EXPERIENCES

### FULL SAIL UNIVERSITY WINTER PARK, FL Project manager

- · Direct report to Executive Vice President
- Increased repayment by 30+%
- Application tracking and processing
- Manager of 3 employees
- · Initiate and maintain third party vendors
- · Reporting & Analysis
- Contract & NDA Management
- · Email Systems Management
- Systems Testing
- Loan Underwriting, Origination, Servicing, & Collections
- Risk management
- · Quality control
- Manage 8 portfolios consisting of 5,000+ loans totaling over \$30 million in assets

### Financial aid operations Administrator

- · Developed and implemented a 4 tier Excel training class involving but not limited to: formatting, functions/formulas, and charts
- Trained departments on student's application processes and terms of our Institutional Private Student Loan
- Reporting & Analysis
- Data Reconciliation towards federal loans/institutional scholarships/private loans/etc.
- Financial Aid

▲ ↓ 1 /2 = ↓ 125% ▼ ↓

05/2012 - PRESENT



# VIRTUAL COMMUNITY





## EMBRY-RIDDLE ONLINE COMMUNITY

# **CONNECTION TO** FACULTY/STAFF







# STUDENT TO STUDENT

AFFINITY



## **ERAU ATHLETICS**





## MESSAGING

# STU STU

**SUGGESTED CONNECTIONS** 

# STUDENT TO STUDENT

## PEER MENTORSHIP

**STUDY GROUPS** 





## STAY CONNECTED TO PREVIOUS INSTRUCTORS

## CONNECTION TO FACULTY/STAFF



# HOMECOMING

...

0

## GRADUATION

# AFFINITY

Ħ

## LOCAL CAMPUS EVENTS





## **CONNECTION TO FACULTY/STAFF**









## STUDENT TO STUDENT



### 合 All Activity

ERAU GROUPS +

Courses

Study

- Student Services
- Clubs & Societies

& Mentors

O Custom

### RESOURCES

💾 Student Calendar

Connections













ABOUT	CONNECTIONS	GROU
	8	••
Post	Edit Profile	Мо
Write Comothing		

合 All Activity

ERAU GROUPS +

OV/ Courses

Study

- (i) Student Services
- Y Clubs & Societies
- & Mentors
- Oustom

### RESOURCES

- 🗂 Student Calendar
- Connections
- Student News

### **Student Services**

### ≡ GROUP LIST ♀ SUGGESTIONS



### Academic Skill Service

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam rutrum turpis non diam luctus interdum cras.



### Library

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam rutrum turpis non diam luctus interdum cras.



### International Student Services

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam rutrum turpis non diam luctus interdum cras.



### Career Services

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam rutrum turpis non diam luctus interdum cras.



### **First Year Experience**

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam rutrum turpis non diam luctus interdum cras.







Log Out











### All Activity

ERAU GROUPS +

Courses

Study

- (i) Student Services
- Y Clubs & Societies
- 😤 Mentors
- O Custom

### RESOURCES

- 💾 Student Calendar
- Connections
- 唱 Student News

## Messages

## CONVERSATIONS

## CONTACTS



## Angelina Lessly 🤍



### Troy Allen

the group.



### Sean Miller



### Tom Murray

Great to meet you yesterday. Would you like to do the assignment with me? I'm going to create a study group for us if you do!



### Bella Carr

Hi! I saw you're taking Business Administration. I've seen you in a few of my tutorials and was wondering if you wanted to make a study group for ECON and ACCT?

Sally Ryan



## ? Q

### ACADEMIC ADVISOR **Create Message** Adam Davidson davidsona@erau.edu UPCOMING Events 2 Hey do you happen to know where to sign up for the Women in Aviation organization? I'm drawing a blank! Orientation Week Started 3d 4d 50m ago Graduation GR Started 3d 4d 50m ago Just a reminder that our meeting is tonight at 6! I am going to create a Skype group and invite everyone into SUGGESTED CONNECTIONS Lauren Davidson - ( Fort Knox Campus I saw your interest in the Honors Society! Would you like me to send you more information about the program? Business Administration Thomas Long Fort Knox Campus Human Factors

## SUGGESTED GROUPS

Sarah Johnson

Fort Knox Campus

Aviation Security













# Virtual Laboratories





## **EVER-EVOLVING TECHNOLOGIES**

2-D, virtual reality (VR), augmented reality (AR), artificial intelligence (AI)



O FLIR

O SARS O PILOT

Flight Controls



- favorite part.

## **Student Feedback**

• The ARVL robotics design simulator is an excellent and innovative learning tool. As a student, I believe more simulations and/or laboratories like this should be developed as it adds excitement to my learning and its potential use is unlimited.

• The existence and use of the ARVL Robotics tool was an unexpected

surprise. It is innovative things like the creation and use of ARVL that separate Embry-Riddle from other institutions.

• The ARVL is a great tool to have for learning as it gives me a real-world feel for the type of technology I will be using.

 I love the robotics lab and would like to see further development of ARVL with more sUAS options and detailed information about the system components particularly payload (cameras, sensors etc), engine options and propulsion technology.

• I consider myself a gamer and this adds the fun back into education while still providing me the education I need to be successful.

• I very much enjoyed the simulation labs within this course, it was my

• Please add more simulations like this one to my future courses as I learn better by actually using the technology instead of just reading about it. • Why can't education be fun like this? Well, I guess it can, please consider adding more of these!













## **WRAP Impact**

- Advisor-specific webpages have become some of the highest return visits hits on our webpage.
- New student matriculation rates have increased over 10% since the inception of this initiative, while applications and admits have remained constant.
- Persistence rates have increased 17% since the inception.
- Overall individual course registrations have increased 24%.
- We have also experienced a 27% increase in overall student enrollments during this

initiative.

- Since implementing the new online student orientation, completion rates have increased from 55% to 100%.
- An abundance of positive qualitative feedback has also been collected from students on their experiences using the virtual labs, virtual onboarding, and degree maps available to them.



# Virtual Lab Demo



## Android



## Apple iOS



# Please **Download** ERAU VR Crash Lab

## ERAU Mobile VR - Crash Lab

### Pinnacle Solutions Inc. Educational



### E Everyone

Add to Wishlist +

Install

## ERAU Mobile VR - Crash Lab 4+

## Embry-Riddle Aeronautical University

Free





# Now it is your turn!

1. Load the ERAU VR App 2. Take the protective plastic off of the lenses. 3. Open the viewer 4. Load the phone

subsidia the selection accordic



# Questions? Thank you

