

# 2021 Curriculum Alignment Conference

ADVANCING CURRICULUM ALIGNMENT PARTNERSHIPS

# **Conference Report**

CENTRAL FLORIDA REGIONAL CURRICULUM ALIGNMENT CONFERENCE

> FRIDAY, FEBRUARY 26<sup>th</sup>, 2021 9:00 AM – 2:00PM

> > **PRESENTED VIA ZOOM**

CURRICULUMALIGNMENT.COM



UNIVERSITY OF CENTRAL FLORIDA













CENTRAL FLORIDA DISTRICT SCHOOLS



UNIVERSITY OF CENTRAL FLORIDA

COLLEGE of

CENTRAL

FLORIDA

DAYTONA STATE COLLEGE

Eastern Florida STATE COLLEGE Explore. Achieve. Success

> ake Sumter State College

**SEMINOLE** 

STATE COLLEGE

**CENTRAL FLORIDA** DISTRICT SCHOOLS

# 2021 Curriculum Alignment **Conference:**

## **ADVANCING CURRICULUM** ALIGNMENT PARTNERSHIPS

### FRIDAY, FEBRUARY 26, 2021

Zoom

This agenda includes embedded links to the various Zoom sessions. The text in "blue" font includes the link to the main conference Zoom session (above) and a number of breakout opportunities, below.

WELCOME AND OPENING REMARKS

# enda:

9:00 a.m.

9:15 a.m.

PANEL PRESENTATION: ALIGNMENT AS A FOUNDATIONAL PIECE FOR TRANSFER STUDENT SUCCESS

Dr. Amy Locklear, Provost, Daytona State

Dr. Theodorea Berry, Vice Provost, Division of Student Learning and Academic Success and Dean, College of Undergraduate Studies, UCF

Dr. Carrie Henderson, Executive Vice Chancellor, Florida College System

Dr. Amy Locklear, Provost, Daytona State College

Dr. Laura Ross, Vice President, Academic Affairs, Seminole State College

Dr. Melody Bowdon, Associate Vice Provost, Division of Student Learning and Academic Success and Associate Dean, College of Undergraduate Studies, UCF (Moderator)

9:50 a.m.

#### CONCURRENT SESSIONS: SELECT ONE TO ATTEND: **Academic Equity**

Dr. Rohan Jowallah, Instructional Designer, Center for Distributed Learning, UCF

#### **Course Sequence Data**

Dr. Teresa Dorman, Associate Dean, College of Sciences, UCF

10:50 a.m. BREAK

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### CENTRAL FLORIDA DISTRICT SCHOOLS

#### 11:00 a.m. CONCURRENT TRACK SESSIONS: SELECT ONE TO ATTEND

#### **Medical College Admission**

**Dr. Erin Myszkowski**, Director, Pre-Health & Pre-Law Advising, UCF

#### The Faculty Advising Role: Beyond the Courses

*Lianna McGowan*, Professor of New Student Experience, Valencia College, East Campus

*Dr. Mia Pierre-Wall*, Professor of New Student Experience, Valencia College, Downtown Campus

Integrating the General Education Program to the Student's Major and Beyond

*Dr. Lindsey Neuberger*, Associate Professor, Nicholson School of Communications and Media, UCF

*Dr. Rosalind Beiler*, Associate Professor of History, UCF

- 11:45 a.m. RECONVENE & GENERAL ANNOUNCEMENTS
- 12:00 p.m. DISCIPLINE BREAKOUTS AND WORKING LUNCH
- 12:40 p.m. RECONVENE & INSTRUCTIONS FOR THE FINAL SESSION
- 12:45 p.m. CONCURRENT TRACK SESSIONS: SELECT ONE TO ATTEND

#### Active Learning in an Online Environment

*Dr. Kersten Schroeder*, Assistant Professor, Biomedical Sciences, UCF

Integrative Learning: The Power of Connecting Two Disciplines for Active Learning and Student Engagement in Online or In-Person Classes Michael Moniz, Professor of Communication, Valencia

College, Downtown Campus

*Dr. Melonie Sexton*, Professor of Psychology, Valencia College, Downtown Campus

<u>Pre-Major Canvas Course for Transfer Students</u> Dr. Jeffrey Reinking, Associate Lecturer, Kenneth G.

Dixon School of Accounting, UCF

1:30 p.m. RECONVENE & GENERAL ANNOUNCEMENTS

1:45 pm.

CLOSING REMARKS

**Dr. Mark Paugh**, Vice President of Academic Affairs, College of Central Florida

The 10<sup>th</sup> Curriculum Alignment Conference was attended by a total of 128 participants drawn from UCF, six DirectConnect to UCF<sup>™</sup> institutions, one participant from FIU and one from Florida Department of Education- Florida College System. This conference was virtual.

### WELCOME AND OPENING REMARKS

Opening remarks were provided by Dr. Amy Locklear, Provost, Daytona State College

### PANEL PRESENTATION: ALIGNMENT AS A FOUNDATIONAL PIECE FOR TRANSFER STUDENT SUCCESS

This panel discussion focuses on the institutional- and state-level perspectives regarding the need for and benefit of alignment as a foundation for student academic success. The panel specifically discussed the value of alignment in relation to student success.

Panel moderated by Dr. Melody Bowdon, Associate Vice Provost, Division of Student Learning and Academic Success and Associate Dean, College of Undergraduate Studies, UCF.

The panelists include senior academic affairs leadership at the state colleges, UCF, and Florida College Schools. They were:

- Dr. Carrie Henderson, Executive Vice Chancellor, Florida College System
- Dr. Theodorea Berry, Vice Provost, Division of Student Learning and Academic Success and Dean, College of Undergraduate Studies, UCF
- Dr. Amy Locklear, Provost, Office of Academic Affairs, Daytona State College
- Dr. Laura Ross, Vice President, Academic Affairs, Seminole State College

### **CONCURRENT SESSIONS:**

Participants were invited to select a session to attend.

### Academic Equity: Creating a Framework for Inclusion in the Online Learning Environment

*Dr. Rohan Jowallah, Instructional Designer, Center for Distributed Learning, UCF* This session will broght together approaches for enhancing inclusion in the design, development, and delivery of online courses. The presenter will also shared a few practices on how to incorporate inclusion in an online course.

Link to Presentation in MSTeams Link to Presentation in Appendix

### Course Sequence Data: New Dashboard in MS Teams

*Dr. Teresa Dorman, Associate Dean, College of Sciences, UCF* A demonstration and discussion of the data available in the Course Sequence Dashboard that is now accessed in Microsoft TEAMS. Includes examples of sequence data from several disciplines.

Link to Presentation in MSTeams Link to Presentation in Appendix

### CONCURRENT TRACK SESSIONS

Participants were invited to select a session to attend.

#### Medical School Admission & Community/ State College Science Courses

Dr. Erin Myszkowski, Director, Pre-Health & Pre-Law Advising, UCF

This presentation reviewed key components to advising Pre-Health students and also discussed the topic of science prerequisite courses required by health professional schools and whether these science prerequisite courses can/should be taken at a four-year college or university or at a two-year state/community college.

Link to Presentation in MSTeams

Link to Presentation in Appendix

### The Benefits of an Informed and Effective Faculty Advising System

Lianna McGowan, Professor of New Student Experience, Valencia College, East Campus Dr. Mia Pierre-Wall, Professor of New Student Experience, Valencia College, Downtown Campus This presentation focused on the faculty advising role in a front door student success course, SLS 1122: New Student Experience (NSE) and an overview of the partnership with student affairs for advising-specific credentialing and a professional development program. Faculty advisors in the NSE course are integral to student retention, degree completion, and transfer rate.

Link to Presentation in MSTeams Link to Presentation in Appendix

#### Integrating the General Education Program to the Student's Major and Beyond

Dr. Melody Bowdon, Associate Vice Provost, Division of Student Learning and Academic Success, UCF

Dr. Rosalind Beiler, Associate Professor of History, UCF

Dr. Lindsey Neuberger, Associate Professor, Nicholson School of Communications and Media, UCF

This presentation provided an overview of UCF's GEP Refresh and the quality enhancement plan (QEP) on integrative learning. The goal is Integrative Learning Foundations within the GEP, where the student thinks about connections between courses, their major and their academic goals; and faculty think about learning outcomes and the ability to apply what learned to real world principles.

Link to Presentation in MSTeams Link to Presentation in Appendix

#### DISCIPLINE BREAKOUTS AND WORKING LUNCH

A working lunch during which faculty joined their peers in their respective breakout rooms to engage in discussions around topics such as remote teaching challenges and opportunities, impact of alignment on upper-level course preparation, and emerging topics and concerns.

### CONCURRENT TRACK SESSIONS

Participants were invited to select a session to attend.

### Active Learning in an Online Environment: Innovations and Opportunities to Courses Using **Online Instruction**

Dr. Kersten Schroeder, Assistant Professor, Biomedical Sciences, UCF

A discussion of how teaching in an online environment has opened new doors to performing different active learning exercises with students in upper-level courses. These courses engage students in case-based learning, problem-based learning, game-based learning, and escape rooms.

Link to Presentation in MSTeams Link to Presentation in Appendix

### Due to technical difficulties, this presentation was not offered.

### Integrative Learning: The Power of Connecting Two Disciplines for Active Learning and Student Engagement in Online or In-Person Classes

Michael Moniz, Professor of Communication, Valencia College, Downtown Campus Dr. Melonie Sexton, Professor of Psychology, Valencia College, Downtown Campus Students take courses as a step in a process. It is common that each course appears as a single experience with no relation to another course or to real world application. Valencia College Downtown has created an integrated lesson approach that allows students to see how two courses connect within a topic, their career, their lives and with bigger social issues in the world. This approach was successful in first-to-first classes but was also used in innovative ways through the online environment. The process is all about creating an active learning experience for the students which engages them in the learning of topics, their lives and social issues. This presentation focused on the concept and how it was applied in the online learning environment with great success.

#### Pre-Major Transfer (Non-Credit) Webcourses

Dr. Jeffrey Reinking, Associate Lecturer, Kenneth G. Dixon School of Accounting, UCF This session will present the Canvas non-credit course that the Dixon School of Accounting at UCF developed for the Pre-Accounting Majors (native and transfer). Students are automatically enrolled, and the course provides information that acclimates students to the Accounting Major. As of Fall 2020, 1,074 students were enrolled and had access to this Canvas course. Link to Presentation in MSTeams

Link to Presentation in Appendix

#### **CLOSING REMARKS**

Closing remarks were provided by Dr. Allan Danuff, Associate Vice President, Arts and Sciences, College of Central Florida on behalf of Dr. Mark Paugh, Vice President of Academic Affairs, College of Central Florida.

A list of attendees is found in Appendix 2.

### **APPENDIX 1: Presentations**

### **Academic Equity**

Dr. Rohan Jowallah, Instructional Designer, Center for Distributed Learning, UCF





## Our present Context

Why address equity? (Discussion/Possible Examples).

Reduce	Reduce achievement gaps	
Address	Address gender gaps in STEM	
Reflect/Audit	Reflect/Audit policies that will limit or hinder low-income students to progress	
Build	Build a community of practice.	
Practice	Practice Inclusive Teaching	



1. Be transparent in your instructional approaches and expectations.



 Strategies for Transparent Instructional Approaches





# Accessibility





**Digital Accessibility UK** 

3. Knowing the profiles of your student population

will take them.

closed captions

on videos.



description.

e.g. colour

contrast ratios.

Figure 1. Percentage distribution of students ages 3–21 served under the Individuals with Disabilities Education Act (IDEA), by disability type: School year 2018–19



## Navigating the support system



10



5. Provide multiple options for students to demonstrate their knowledge.



4. Online assessments to reflect students'		Formative	Summative
preferences.	When?	Before or during instruction	The end of instruction
	Why?	Guide in planning & improving instruction, to improve learning	Inform & assess the level of accomplishment toward LO

t

This Photo by Unknown Author is licensed under CC SY-NC-ND



# Diversity Assessments





6. Provide the framework for collaborative group projects to enhance students' learning experience.



# Inclusive group work ( Outline the process)

Inform	Take	Set up	Explain
Inform students of the need diversity the group.	Take proactive action if groups are not showing diversity in relation to gender, race, ethnicity, and, disabilities.	Set up protocols for group behavior	Explain the benefits the group work to your discipline.

7. Have high an expectation for all students regardless of their background.





## Fostering High Expectations

- Convey confidence in your students.
- Let students know that you believe in them and speak positively about students to other staff.
- Give opportunities for students to contribute
- Give specific feedback.
- Provide high levels of support
- Have a "No student left behind" approach.

## Equitable engagement

- Random response
- Provide challenging questions to all students
- Provide a protocol for engagement
- Seek varied perspectives on concepts
- · Consider religious holidays
- Be mindful of your language use and possible generalization.
- Check for questions/feedback (online)



What Does It Mean to Be Equity-Minded?

- Willingness to look at student outcomes and disparities
- Recognition that individual students are not responsible for the unequal outcomes of groups
- Respect for the aspirations and struggles
- Fairness
- Elimination of entrenched biases, stereotypes, and discrimination

Theory and Practice



# A Success Story-HBCU





# Group Discussion



## References

- Adelman, H., & Taylor, L. (2017). Addressing Barriers to Learning: In the Classroom and Schoolwide. Online Submission.
- Cepin, J., & Naimi, K. (2015). (Non)Construction of the Teacher: An Inquiry into Ontario's Equity and Inclusive Education Strategy. *Alberta Journal of Educational Research*, 61(1), 65–79.
- Kelly, C. A. (2002). Creating equitable classroom climates: An investigation of classroom strategies in mathematics and science instruction for developing preservice teachers' use of democratic social values. *Child Study Journal*, 32(1), 39–52



### **Course Sequence Data**

Dr. Teresa Dorman, Associate Dean, College of Sciences, UCF









# **Course Sequence Data**

New Dashboard in MS Teams

Dr. Teresa Dorman Associate Dean, College of Sciences

# Accessing the Dashboard – MS Teams

Do you currently use MS Teams?

 Using your Zoom reactions (found either on the screen you're looking at or under "participants") answer "YES" or "NO"

Guest Accounts (for nonUCF Access)

- Requires Azure based Multi-Factor Authentication (MFA)
- "UCF Guest Access MFA" document in chat



# Accessing the Dashboard

	Microsoft Teams	Q Search		
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OneNote	CA-Speech	DirectConnect Course Sequencing Dashboa	January 25	Deborah Bradford
	CA-Theatre			
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	Curriculum Alignment-M 👌			

"1 READ ME FIRST" document in chat

#### Excerpt from "READ ME FIRST"

### **Permission and Additional Information:**

- Notify us if you intend to share these data we want to ensure you know how to correctly read and interpret the results
- Notify <u>Dr. Pat Ramsey</u> with UCF's IKM before sharing outside of the DirectConnect to UCF<sup>®</sup> partner institutions

### Ethical Use of these Data:

- Many factors positively/ negatively impact student success
- Not intended:
  - to imply that these data predict or determine a student's ability to perform and/or succeed
  - to indicate the quality of instruction at a given institution

Examining these data, we must acknowledge:

- Institutional Missions
- Performance Metrics
- Admissions Protocol
- Use (or not) of Placement Tests
- Environmental Differences
- Internal Curriculum Alignment (dept/inst)

# Downloading the Dashboard

	Microsoft Teams	Q, Search		
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The file will (most likely) <u>be located in</u> your "Downloads" folder.



# **Course Sequence Detail**

Detailed analyses of course sequences

Tableau Reader - Feb19_DirectConnect	Course Sequencing D	lashboard					×
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		Undergra	aduate Cours	se Sequencing Das	hboard		Ŷ
			Course Sequence Detail	Sequence Relationships			
See data by		Overa	III Target Course Su	ccess (A,B,C) Rates by Prereq	uisite Course Attempt Source		
<ul> <li>Institutional Summary</li> <li>Gap Terms</li> <li>Academic Success</li> </ul>			oleted at UCF	Transferred In	AP Credit		
Year (AII) (2020-21			5.9% t Course Success Ra	75.2% ates by Institution of Prerequ	isite Course Attempt		
<ul> <li>✓ 2019-20</li> <li>✓ 2018-19</li> <li>✓ 2017-18</li> <li>✓ 2016-17</li> </ul>	100.0%		85.0%	85.5%	88.3%	87.5%	
Select Target Course	80.0%	69.1%	4		78.3%	79.2% 73.3% 71.8%	
Select Prerequisite Course	Success Rate	65.0% 56.3%	69.2%	61.9%	60.0%	+57.1%	
Prerequisite Completion Institution	A0.0%						
✓ Davtona State College							





# **Example Data Sets**

Target	Prerequisite
EGN 3310	PHY 2048
Statics	Physics with Calculus I
ACG 2021	MAC 1105
Prin. of Financial Acct	College Algebra
PCB 3044	BSC 2011
Ecology	Biology I

*Remember:* Target is the course taken after transfer to UCF. Prerequisite is the course taken at any institution and these are the <u>Curriculum Alignment courses</u>.















#### Success Rates of Target Course Based on Prerequisite Course Grade



# Sequence Relationships



### For the data obsessed

A big picture view of **all sequences** with multiple options for filtering the data.

I recommend starting by isolating a **Target Course Prefix** 





# Q&A

- What additional sequences should be examined?
  - Lower-level course discussed in alignment (or others?)
  - Upper-level course offered at UCF
  - Direct prerequisite not required!
- What else?


Medical College Admission Dr. Erin Myszkowski, Director, Pre-Health & Pre-Law Advising, UCF



Erin Myszkowski, Ed.D. Director



# **Pre-Health and** UCF Pre-Law Advising

UNIVERSITY OF CENTRAL FLORIDA

# Overview

- Key Components to Advising Pre-Health Students
- Science Prerequisite Courses Community/State College or 4-Year University
- Pre-Health Transfer Student & Current Medical School Applicant - Real Life Example





# Path to Health Professional Schools

Skills & Values

## Academics

- Required Courses for Admission (a.k.a. "Prerequisites")
- ▶ GPA (Overall GPA & Science GPA)

# Extracurricular Activities

- ▶ Volunteer/Community Service
- Shadowing
- ▶ Leadership
- ▶ Research



# **Skills & Values: Pre-Health Preparation**

PROS	CONS	
Personal Passion	Preparation Time	
High Respect-High Pay	High Expectations	
Helping Others	Academic Mastery	
Many Choices of Major	Rigorous Course Load	
Job Outlook	Very Competitive Admission	
Altruism	Educational Cost	
Impact on the Community	Educational Time	
Awesome Responsibilities	Awesome Responsibilities	

Reference: C. Klinger, Valencia College



# **Academics: Pre-Health Preparation**

- ▶ GPA (Overall & Science): 3.5 GPA or higher
- Required Courses for Admission these will <u>vary</u> by health professional school, but are basically:
  - ▶ General Biology I & II
  - ▶ General Chemistry I & II
  - ▶ Organic Chemistry I & II
  - Biochemistry
  - ▶ Physics I & II
  - Mathematics (College Algebra, Pre-Calculus, Trigonometry, Calculus, Statistics)

### Highly Recommended (sometimes required) courses:

> Anatomy, Physiology, Microbiology, Genetics, Social Sciences, Others



# **Extracurricular Activities: Pre-Health Preparation**

### Volunteer/Community Service

Medical settings & non-medical settings

### Shadowing

- Medical professionals in medical settings
- Often the most applicable experience to your learning and development for health professional school

### Leadership

 Often a highly-desirable activity and skill of applicants to health professional school

### Research

 Often a highly-desirable activity, skill, and interest of applicants to health professional school





# Next, "the elephant" .....

Taking prerequisite science courses at community/state colleges and fouryear universities



"Tm right there in the room, and no one even acknowledges me."

# UCF Stance – Written in July 2014

### UCF Contributors:

- Erin Myszkowski, Director, Pre-Health and Pre-Law Advising
- Amanda Colee, Director of Student Services and Advising, Burnett School of Biomedical Sciences/College of Medicine
- Lee Anne Kirkpatrick, Director, College of Sciences Advising Services
- Mike Hampton, Former Director, Interdisciplinary Studies, and Professor of Chemistry
- > Pam Cavanaugh, Associate Vice Provost, UCF Regional Campuses

Pre-Health Students Transferring to UCF with an A.A. Degree from a Community/State College: Health Professional School Course Recommendations

Q: Can Pre-Health students take science courses at community/state colleges?

# A: YES! But, Be Strategic.

See: https://phpladvising.ucf.edu/pre-health/transfer-students/recommendations/



https://phpladvising.ucf.edu/ pre-health/transferstudents/recommendations/

University of Central Florida University of Florida

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Pre-Baud D. and Pre-Law Advising (PHP), Advising Trover Cobsum Hall, Bula 205 / Phone: 487 425-0101 Read

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2014 Fall Semes	INTRODUCTION TO COMP	3.00	5	9.00	
MAC 1140	PRE CALCULUS ALGEBRA	3.00	в	9.00	
2015 Spring Sem	UNITED STATES HISTOR	3,00	A	12.00	
MAC 1114	COLLEGE TRIGONOMETRY	3.00	8	9.00	
SPC 2608	OBAL COMMUNICATION	3.00	A	12.00	
AMH 2010	UNITED STATES BISTORY TO 1877	3.00	в	9.00	
2015 Fall Semes					
MAC 2311 HUN 1201	CALCULUS I HUMAN NUTRITION	3.00	C+ B	6.75	
MAC 2311L	CALCULUS I LAB	1.00	C+	2.25	
2016 Spring Sem					
ENC 1102 ECO 2013	WRITING WITH RESEARCH PRINCIPLES OF MACRO	3.00	C B+	6.00 9.75	
2016 Fall Semes	ter		100.0		
CHM 1025C	INTRODUCTION TO CHEMISTRY AND	4.00	A	16.00	
BSC 1010C MUL 2380	GENERAL BIOLOGY I POPULAR MUSIC IN AME	4.00	A	16.00	
STA 2023	ELEMENTARY STATISTIC	3.00	A	12.00	
2017 Spring Sem					
BSC 1011C CHM 1045C	GENERAL BIOLOGY II (FOR SCIENC GENERAL COLLEGE CHEM	4.00	A A	16.00	
2017 Summer Sem CHM 1046C	GENERAL COLLEGE CHEMISTRY II	4.00	A	16.00	
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Totals		Attempt	Earned	Points GPA	
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# **UCF Pre-Health Advisors**

### <u>UCF Pre-Health Advising on taking Science</u> <u>Prerequisite Courses at Community/State Colleges:</u>

We are Individualized in our advising; we are NOT prescriptive in our advising

- We really try to get to know our students and help them make the best decision based on their individual life situation (ex. finances, proximity, work/class schedules, other hardships, etc.)
- > We are **Evidenced-Based** with students when we can be
- We are the "<u>Middle men</u>/women" between the health professional schools and the Pre-Health students



Trevor Colbourn Hall, Suite 205 Phone: 407-823-0101 Email: <u>phpladvising@ucf.edu</u>

Dr. Erin Myszkowski, Director Kimberly Finley, Academic Advisor IV Chauntrice Riley-Stanford, Academic Advisor III Brittany Cunnien, Academic Advisor II Courtney Martinez, Academic Advisor I

### The Faculty Advising Role: Beyond the Courses

Lianna McGowan, Professor of New Student Experience, Valencia College, East Campus

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### VALENCIACOLLEGE

# **Advising Research**

Faculty will assist in the advising process in order for students to have a connection with an advisor on a one-to-one basis. O'Banion (1972) noted, "There are problems, too, with an instructor academic advising system. Often the program of academic advising is poorly conceived and coordinated; instructors are left to fend for themselves" (p. 14). When this is done without support or training, the students can suffer (O'Banion, 1972). Therefore, faculty-advising training is needed to educate faculty advisors.

Campbell and Nutt (2008) noted, "When viewed as an educational process and done well, academic advising plays a critical role in connecting students with learning opportunities to foster and support their engagement, success, and attainment of learning outcomes"

Community colleges are increasingly a favorable financial option for students pursuing higher education (Staley, 2010). As the community college option becomes more attractive, more students are seeking to take their education to this level as they begin their academic career beyond high school.

# Faculty Advising and Community College

- Faculty members at 4 year colleges and universities advise students as part of their responsibility
- In contrast at community colleges, few faculty members are required or trained to advise students (Pierre, 2017)
- At the time of my study, I was able to identify that Denver Community College was one of a few that had faculty as advisors.....



# Faculty Credentialing & Training Annual Appointed Faculty

Credentialing Parameters for SLS Discipline

- Minimum Requirements: master's degree and LFMP7200, New Student Experience (NSE) Credentialing Training
- Training process in summer from student services
- Understanding curriculum
- Engagement Hours in contract
- Purposeful office hours



### Faculty Credentialing & Training **Part-time Faculty** Credentialing Parameters for SLS Discipline Minimum Requirements: master's degree and LFMP7200, New Student Experience (NSE) Credentialing Training Contract 2 hours advising responsibility per 3 credit course compensated apart from credit hour payment 0 3 sections of SLS 1122 / 9 credits/ 6 advising hours per week Engagement Hours Course load: 3 classes maximum contract due to advising responsibility Communication and Structure syllabus statement included in department checklist use of online scheduling tool recommended advising session topics with discussion topics Session 1: Building Rapport and Career Exploration Session 2: Choosing a Major and Course Selection 1 THE SLS 1122: New Student Experience Course required general education course for all A.A and A.S. degrees at Valencia added to college catalog in 2015 Area 1. Communications Required Courses - There are a required 12 credits. The Freshman Composition courses must be completed with a minimum grade of C to fulfil the Gordon Rule Requirement Freshman Composition I FRESHMAN COMPOSITION I \*\*\* ENC 1101 3 Freshman Comp I Honors or ENC 1101H Freshman Composition II Freshman Comp II \*\*\* ENC 1102 Freshman Comp II-Honors or ENC 1102H Select one of the following Oral Communication courses: SPC 1608 FUNDAMENTALS OF SPEECH SPC 1608H Fundamentals of Speech- Honors SPC 1017 Interpersonal Communication SPC 1017H Interpersonal Comm - Honors New Student Experience 3 SLS 1122 New Student Experience NEW STUDENT EXPERIENCE-HONORS or <u>SLS 1122H</u> **Total Credit Hours**

# **Curriculum Alignment**

### Course Learning Outcome

Students will design an education plan that includes goals for learning and a financial plan.

### Corresponding Evidence of Learning

Develop an academic plan that includes all admission requirements and courses needed to earn their selected degree at Valencia and effectively prepare for transfer (if applicable).

 Course curriculum outline submitted to college committee for approval and approved via quorum vote. Recently updated February 19, 2021.



# **Curriculum Alignment**

Critical Thinking: General Education Outcome Indicator

Students will design an education plan that includes goals for learning and a financial plan

Academic Blueprint: Artifact for College-Wide Assessment

### **Grading Rubric**

WSE-TermByTerm-CT-V1 What do I need? Complete a term-by-term academic plan where student included all courses required for degree/program. SLO: Developed an education plan that includes all courses needed to earn their selected degree at Valencia GE: A3 Critical Thinking- Use of Evidence threshold: 1.0 pts	2 pts Excellent - This information is used for data collection and does not impact your grade	1 pts Satisfactory - This information is used for data collection and does not impact your grade	0 pts Developing - This information is used for data collection and does not impact your grade	
	18			

# Sample Assignment

### Section 2: Term-By-Term Plan

How to complete this section: Indicate if your program has Common Program Prerequisites. Then, plan the remaining classes required for your degree at Valencia, including all necessary pre-requisites for your current (or future) program, using your Degree Audit and Program Requirements. Start by filling in the classes you are enrolled in for the current semester. Then, move to the next term box and:

Under the Courses column, type the course prefix and number for the course you want to take (ex. ENC 1101, not English Comp). Do not include junior level (3000) and senior level (4000) courses). Include the Credit Hours for each course and then total the credit hours for the term at the bottom of the column

### Current semester: Fall 2020

Course	Credit Hours	
SLS 1122	3	
ENC 1101	3	
SPC 1608	3	
BSW 1000	3	
Enter course prefix & #	Enter credit hours	
Total Credit Hours:	12	

### Term & Year: Spring 2021

Course	Credit Hours
ENC 1102	3
MGF 1106	3
BSW 1020	3
Enter course prefix & #	Enter credit hours
Enter course prefix & #	Enter credit hours
Total Credit Hours:	9

# 5

### Term & Year: Fall 2021

Course	Credit Hours	
HUN 1202	3	
POS 2041	3	
BSW 2022	3	
SPN 1120	4	
Enter course prefix & #	Enter credit hours	
Total Credit Hours:	13	

### Term & Year: Spring 2022

Course	Credit Hours	
EVR 1001	3	
BSW 2024	3	
SPN 1121	4	
Enter course prefix & #	Enter credit hours	
Enter course prefix & #	Enter credit hours	
Total Credit Hours:	10	

Course	Credit Hours
HUM 1020	3
STA 2023	3
Enter course prefix & #	Enter credit hours
Enter course prefix & #	Enter credit hours
Enter course prefix & #	Enter credit hours
Total Credit Hours:	6

### Term & Year: Summer 2022

Course	Credit Hours
EUH 2000	3
BSW 2941	3
Enter course prefix & #	Enter credit hours
Enter course prefix & #	Enter credit hours
Enter course prefix & #	Enter credit hours
Total Credit Hours:	6





# **Works Cited**

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### Integrating the General Education Program to the Student's Major and Beyond

- Dr. Lindsey Neuberger, Associate Professor, Nicholson School of Communications and Media, UCF Dr. Rosalind Beiler, Associate Professor of History, UCF
- Dr. Melody Bowdon, Associate Vice Provost, Division of Student Learning and Academic Success



# **Motivations for Refresh**





# **Key Elements of our Process**

- Engagement
- Methodical progression
- Faculty development
- · Broad and deep faculty leadership
- Community building
- Meaningful assessment

# **GEP Revision**



# Updated GEP Approach

- Integrative
- · Provides students with a coherent experience
- · Streamlined and more meaningful assessment
- Promotes a GEP community
- · Fosters faculty collaboration and support



The purposes of the UCF General Education Program (GEP) are to introduce students to a broad range of human knowledge and intellectual pursuits, to equip them with the analytic and expressive skills required to engage in those pursuits, to develop their ability to think critically, and to prepare them for life-long learning. The GEP curriculum provides students with the intellectual, ethical, and aesthetic foundations necessary to make informed choices; to accept the responsibilities of working and living <u>n</u> a rapidly changing world; and to lead a productive and satisfying life.



				gram
OMMUNICATION FOUNDATION	GEP 6 - choose a course from GEP 4 or GEP 5	Sec.	SCIENCE FOUNDATION	
EP 1 and GEP 2 are required for all majors are			GEP 11 - choose one class to complete	and the second s
GEP 1. • ENC 1181 English Composition 1 (URV)	(Consider Doriton Rule Writing (1978) & Male Core Regularments (4)	W DEP B	+ AST 2002 Autonomy (PR)	$\square$
GEP 2. ENC 1102 English Comp. 8 (PR) (GRW)	MATHEMATICAL FOUNDATION		CHM 1929 Concepts in Chambelry (PR)	$\square$
EP 3 - choose one class to complete them	GEP 7 - choose one class to complete		CHM 1812 General Chemistry (PR)	$\square$
COM 1006 introduction to Communication	MinC 1185C Curiege Algebra (PR) (GAb)		CHM 2040 Chemistry Fundamentals IA (PR) and	$\square$
SPC 1900C Fund, of Technical Presentations	MAC TIDSC Trigonomatry (PR) (0764)		Crist 2041 Chemistry Fundamentals IB (PR)     Crist 2041 Chemistry Fundamentals IB (PR)	
SPC 1928 Fund, of Oral Communication	RAC 1160C Pre-Calculus (PR) (SRA)		CHM 2045C Channelry Fund. 1 (FR)	
STORICAL & CULTURAL FOUNDATION	MAC 2011C Cale. w/ Analytic Geo. 1 (PR) (GRM)		CHS 1440 Principles of Chemistry (H)	
(P 4 - choose one class to complete	* MGF 110E mate wate (PR) (0/0/)		PHY 1038 Physics of Energy, Climate Change, Env.	
AMH 2010 U. S. Hellery: 1482-1877 (0700)	WGF 1107 Explorations in Mathematics (GAM)		+ Phily 2020 Concepts of Physics	
EUH 2000 mediers Civitzation I (GRW)			+ PHY 2853C College Physics I (PR)	
EUH 2001 Weekers Christeller & (DFW)	GEP # - choose one class to complete		· PHY 2948C Gen. Physics using Cale 1 (PR)	
♦ HUM 2020 Encountering the Humanities	COS 1900C introduction to Computers (ORM	[	PSC 1121 Physical Subsce (PR)	
HUM 2210 Humanistic Tradition I (URM)	CQS 2190C Congular Pund. for Bastmass (ORM)	IČ	GEP 12 - shoose one class to complete	-
HUM 2230 Humanistis Tradition 8 (25%)	COP 2500C Consepts in Computer Science (2614)	— I r	AMT 2511 The Human Species	
WORI 2012 World Christellus I (GRM)	COP 3NEC Computer Estence 1 (PE) (3RM		BSC 1005 Bininginal Principles	
WOH 2022 wurd (svitashus # ()#W)	COT 3100C with to Disards Mountains (Mo (office)		85C 1050 Bluesge and Environment	
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ANT 2610 Cultural Authorsprings	STA 2023 Elafatival Webuda I (PH) (SAM)		+ EVR 1001 who to Exvisionmental Estence	
ARH 2050 Hadury of Wesleyn Art I	STA 3032 Probability & Hale. for Eng. (PRU) (CRM)	[	GEO 1200 Physical decaptophy	
ARM 2051 Hallory of Wedlers Art II	SOCIAL FOUNDATION		GEO 2379 Resources decigraphy	
Fil. 1000 Chemic Survey	GEP 8 - shoose one class to complete		GLY 1030 deckupy and fit. Applications	
FE, 2030 History of Walton Pictures	ANT 2000 General Anthropology		GLY 2038 Environmental Decesteroe	
Fil, 3036 Film Hallory I (FR)	HSA 2117 Chris Engagement is the US readhcare		WCD 1210 adm. to Buleshnology & Genetic Eng-	
Fill 3057 Film Hadary 8 (PR)	PSY 2012 denaral Psychology		MET 2104 The Early's Climate	
LIT 2110 World Literature ( (PR) (SPA)	+ SYG 2000 introduction to Southtagy		- One in Partial State Care county is the per each of the Fue ID Four	
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MUH 2015 Amer. Pop. Music 1940's Present	ECO 2013 Presignes of Macroscolumes		NL = Osume has at least one prerequisite. Prevequisites must be satisfied intolinent. Refer to the <u>UCP Undergraduate Catalog</u> for preveousle infor-	
MUL 2010 Knpyment of Music (UNV)	ECO 2023 Principles of Microeconomics		when 35 mill have an required for the UCP General Education Prope	-
MUL 2016 Evolution of Jack	POS 3941 American National Doversement (0,)		torm majors resume specific General Disustion classes. Consult your acc abrium and the <u>UCF Universitations Calance</u> , forme classes are not offere	C dvary
MUL 2720 Music of the World	1 ······		energies: Course descriptions evenable in the online UCP Understanding.	Catalog
Pril 2018 introduction to Philosophy	1		the state of	
REL 2300 World Religions	3			
<ul> <li>THE 2000 Theater Survey (2400)</li> </ul>				



# The UCF Integrative GEP

- prepares students to broaden and deepen their understanding of common human themes; to develop an awareness of diverse cultures; and understand the cultural, historical, economic, and social implications of what they learn
- prepares students to be successful writers, speakers, and producers of digital materials in academic, civic, and professional contexts
- provides students with a deep understanding of scientific methods and enables them to connect and apply those methods to challenges facing society
- prepares students to be well-informed citizens who can reason and can apply analytical, statistical, and computational methods to the challenges of a globallydiverse and technologically-rich environment
- prepares students to assess and decipher information in a world full of conflicting sources



# The Color Coding System

Cultural Interactions Communication Knowledge Application Evaluation/Interpretation Problem Solving

AMH 2020 Evaluation/Interpretation Cultural and Historical Communication

ANT 2511 Cultural and Historical Knowledge Application Problem Solving BSC 2010C Knowledge Application Problem Solving Communication

MAC 2311C Problem Solving Knowledge Application

ENC 1101 Communication Cultural and Historical Evaluation/Interpretation



# **Previous Assessment Models**

- Unit by unit/Course by course
- Very little integration/coordination within foundations
- Almost no reaching across foundations
- Sometimes felt a little like checking boxes



# **Communication Foundation**

Students who complete requirements for the Communication foundation will be able to:

- Comprehend, use, and/or apply information for audiences in rhetorically appropriate ways (e.g., sources, ideas, disciplinary content).
- Communicate in rhetorically and stylistically appropriate ways for a range of audiences, purposes, forums, and occasions.
- Conduct and present research in rhetorically appropriate ways.
- Employ communication principles, techniques, or concepts to identify, explain, or address challenges facing society.



# **Cultural Interactions Foundation**

Students who complete requirements for the Cultural Interactions foundation will be able to:

- Identify and discuss themes that are both common and distinct among diverse cultures.
- Analyze and discuss the cultural significance of pieces of art, performances, or texts from diverse aesthetic, historical, and social contexts.
- Compare and interrogate sources of meaning and/or value related to the process of cultural production across social and historical contexts.
- Employ principles, techniques, or concepts associated with the study of cultural interactions to identify, explain, or address challenges facing society.



# **Knowledge Application Foundation**

Students who complete requirements for the Knowledge Application foundation will be able to:

- Characterize a scientific theory as a product of objective evidence and scientific methods.
- Interpret, develop, and use visual representations of data to make and support inferences from scientific observations.
- Identify observational data as the foundation of a scientific argument.
- Employ scientific principles, techniques, or concepts to identify, explain, or address challenges facing society.



# Interpretation & Evaluation Foundation

Students who complete requirements for the Interpretation and Evaluation foundation will be able to:

- Demonstrate mastery of discipline specific vocabulary and concepts.
- Recognize social, political, or economic problems and evaluate solutions to those problems.
- Understand how to collect, evaluate, or interpret data to draw conclusions.
- Recognize and interpret the impact of social, economic, and political institutions on the wellbeing of individuals in a country.
- Employ social science principles, techniques, or concepts to identify, explain, or address challenges facing society.



# **Problem Solving Foundation**

Students who complete requirements for the Problem Solving foundation will be able to:

- Interpret posed real world computational, conceptual, or statistical problems.
- Apply learned computational, conceptual, or statistical concepts or skills to solve problems.
- Analyze results of a real world computational, conceptual, or statistical problems.
- Employ problem solving principles, techniques, or concepts to identify, explain, or address challenges facing society.



Course	Learning Outcome 1 Comprehend, use, and/or apply information for audiences in rhetorically appropriate ways (e.g., sources, ideas, disciplinary content).	Learning Outcome 2 Communicate in rhetorically and stylistically appropriate ways for a range of audiences, purposes, forums, and occasions.	Learning Outcome 3 Conduct and present research in rhetorically appropriate ways.	Learning Outcome 4 Employ communication principles, techniques, or concepts to identify, explain, or address challenges facing society.
COM 1000	Exam One Item XX		Application Paper 2	
SPC 1603	Exam One Item XX	Persuasive Speech	Informative Speech	Ceremonial Speech
SPC 1608	Exam One Item XX	Persuasive Speech	Informative Speech	Elevator Pitch Speech
ENC 1101	Application Paper 1			Application Paper 2
ENC 1102		Research Presentation	Research Proposal	Research Proposal
				UCF

# **Integrative Assessment**

- Allows faculty to individually operationalize learning outcomes in their courses
- Allows for assessment of actual learning, not siloed by disciplines
- Truly measures progress on integrating our curriculum
- Allows us to measure the GEP as an actual PROGRAM – not just a collection of courses



# Concluding Thoughts

- Encourage broad input, honest feedback, and authentic collaboration
- Involve students in the process
- (Re)convince faculty of the value and importance of assessment



We are happy to hear any suggestions, answer any questions, and receive any feedback.

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Rosalind.Beiler@ucf.edu

Melody.Bowdon@ucf.edu



### **Active Learning in an Online Environment**

Dr. Kersten Schroeder, Assistant Professor, Biomedical Sciences, UCF



# Innovations and opportunities to courses using online instruction

# "Active Learning in an Online Environment"

2021 Curriculum Alignment Conference Kersten Schroeder, Ph.D. Assistant Professor of Medicine Burnett School of Biomedical Sciences College of Medicine

# Do you love to lecture like myself?



Q Popular Latest

The Atlantic

43

### HEALTH

=

# Is the Lecture Dead?

RICHARD GUNDERMAN JANUARY 29, 2013

The nation's 80,000 medical, 20,000 dental, and 180,000 nursing school students might think that lectures are dead, or at least dying. Health professions curricula increasingly feature small-group, interactive teaching, and successive waves of enthusiasm have arisen for laptops, PDAs, and tablet computers as the new paradigms of learning. Commentators frequently single out the lecture as the prototypically old school, obsolete learning technology, in comparison to which newer educational techniques offer interactive, customized, and self-paced learning alternatives.

This is no arcane academic matter. The LCME, the organization that accredits US medical schools, strictly limits the number of hours per week students may spend in lectures. So seriously does the organization take this mandate that, in October of 2011, it placed one of Texas's medical schools on probation, in part because its curriculum relied too heavily on "passive" approaches to learning -- foremost among them, lectures. In medical education circles, "lecture" is fast becoming a term of derision.

# Liaison Committee on Medical Education (LCME) accreditation standards

- The accreditation process requires a medical education program to provide assurances that its graduates exhibit general professional competencies that are appropriate for entry to the next stage of their training and that serve as the foundation for lifelong learning and proficient medical care.
- The faculty of a medical school ensure that the medical curriculum includes self-directed learning experiences and unscheduled time to allow medical students to develop the skills of lifelong learning. Self-directed learning involves medical students' self-assessment of learning needs; independent identification, analysis, and synthesis of relevant information; appraisal of the credibility of information sources; and feedback on these skills.

# iClicker or Mentimeter

- Classroom Response systems (CRS) are quick and easy to use.
- CRS allow students to actively engage during the entire lecture.
- CRS gives instance feedback to both students & instructor.
- CRS helps initiate a dialogue between the students & instructor.
  - From a student perspective, these systems establish a benchmark on where he or she should be in regard to class material
  - **CRS** may serve as a foundation for new questions a student might have.

### How does CRS help instructors to Understand Their Students?

It allows instructors to know where students are in their

understanding of the learning objectives at that moment in time.





# What is Active Learning?

- Active Learning is a strategy that encourages a student to adopt purposeful and meaningful approaches to their learning.
- Active learning encourages students to ask questions and become engaged in their own learning process.
- The goal is to get students to be active participants in their learning instead of passive.



Examples of Active Learning <u>include</u>: Escape Rooms, Problem-based learning, Team-based learning, *Case-based learning*, and Game-based learning

# Types of Active Learning Exercises (ALEs)

- Bacterial Growth assignment
- Crossword puzzle
- Fill-in-the-Blank
- Short answer worksheet
- Clinical Case competition
- Kahoot competition
- Writing assignment about non-pathogenic bacteria
- Writing assignment about pathogenic bacteria
- Developing a New Antibiotic assignment
- Concept Map (not an ALE, but a good exercise for students)

# What are Escape Rooms?

- Escape Rooms are a team-based puzzle game using a real-life scenario where individuals unveil clues, solve riddles and puzzles, and complete tasks in order to unlock the next clue and ultimately figure out how to leave the room.
- Escape Rooms fosters collaboration & communication amongst group members, many of whom do not know each other.
- These real-life scenarios can be adapted to a variety of curriculums.



# Escape Room

- Escape Rooms have been an effective tool for students in order to help in reinforcing course concepts
- They engage students with course content in exciting and challenging ways.
- They can be performed in person or in a virtual environment.
- Both environments can use various puzzles, riddles, and visual clues that can challenge the student groups Alonso G, Schroeder KT. Applying active learning in a virtual classroom such as a molecular biology

# **Biochemistry** and **Molecular Biology** Education

Special Issue: Teaching in the Time of COVID-19



that address the unique challenges and opportunities that have emerged due to the COVID-19 pandemic. Topics addressed include adapting to teaching online teaching BMB content with COVID-related themes, unique laboratory oppor-

VOL 48 NO 5 1 SEPTEMBER/OCTOBER 2020

escape room. Bjochem Mol Biol Educ. 2020;48:514-515. https://doi.org/10.1002/bmb.21429



# Escape Room for Molecular Biology I

### \* Required

o proceed apital lette	to the next section, separate each answer with a comma followed by a space. Do not use rs.
Using th	e words left, right, high, and low. Solve each of the riddles. *
	Directionality Lock
Prote	ins grow from C- terminus N- terminus
DNA	polymerase reads in a 5' 3' fashion
DNA (	polymerase 1 and 3 both have 3' 5' exonuclease activity
Whe	n ΔH= (+) and S= (+),
the re	action is spontaneous only at temperatures
When	ΔH= (-) and ΔS= (-),
	action is spontaneous only at temperatures



In this visual puzzle, there are 8 hidden letters. Together, they form a word. What is it? \_\_\_\_\_\_ (hint: Innovation and \_\_\_\_\_Production)
#### How do Escape Rooms help instructors to Understand Their Students?

- It allows instructors to see how the students apply the learning objectives when solving puzzles and riddles.
- It allows instructors to see how students interact with each other.
- It encourages instructors to get to know each student including their strengths and weaknesses.
- By utilizing an escape room, instructors can learn about their students outside of the traditional classroom setting.
- The students that led the groups were usually the "C" students.

Cancer Sucks	Genetics	DNA Damage	Posttranslational Modification	
	Additional and a second an	A study conversion gradient and HD representations of the property of the study of the strength of the st		
		Thank you for your attention Any questions???		

## **Molecular Biology Pyramid**

Molecular Biology Pyramid



#### Round 1

# **S"OME"thing** Don't be an "ASE"

Bonds, Bonds, Bonds Studying Genes

**DNA Mutation Repairing DNA** 

### What is Case-Based Learning?

- Case-Based Learning (CBL) is a strategy that encourages students to engage with the course material or content using real-life cases, scenarios, or applications.
- Cases can range from scenarios that can be addressed in a single class period, sometimes in the first few minutes of class
- My favorite cases are sequential or iterative cases that require multiple class periods and multiple learning activities to arrive at multiple valid outcomes.
- There are many repositories such as the National Center for Case Study Teaching in Science for <u>cases</u>, <u>but</u> developing ones specific for your course content and learning objectives seem to work the best.

https://fctl.ucf.edu/teaching-resources/teaching-strategies/teaching-methods-overview/

KATIONAL CENTER FOR Case study teaching in scienci

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#### Scheme for how to approach creating a Case-based learning (CBL) activity

- Case-based learning (CBL) has shown successful results in improving student achievement and facilitating retention of course content.
- CBL has traditionally been used for in person class exercises
- CBL can be used in during a scheduled videoconference as long as students are willing to be engaged and work with each other in a remote environment.
- A CBL case should focus on a few learning objective in mind.
  - Keep cases concise to only two or a few paragraphs
  - Encourage student cooperation for cases to work effectively emphasizing 21<sup>st</sup> Century Learning Skills

effectively emphasizing 21<sup>st</sup> Century Learning Skills Thibaut & Schroeder. 2020. Biochemistry and Molecular Biology Education. 48:484–485. https://doi.org/10.1002/bmb.21408



Design learning objectives using Bloom's taxonomy which are measurable, achievable given time constraints, and relevant to the topic

Step 1: Plan

### **COVID-19 Case Learning Objectives**

- Demonstrate the ability to identify the components of the coronavirus
- Recognize how mutations in the coronavirus affect the amino acids of different proteins
- Describe the processes of qPCR, RT-qPCR, and CRISPR including how they can be used to detect the coronavirus
- Design how CRISPR could be used as a therapeutic agent for the coronavirus.

#### Bloom's Taxonomy of Measurable Verbs

			-	•	EVALUATION Appraise
				SYNTHESIS	Argue
				Arrange	Assess
			ANALYSIS	Assemble	Choose
			Analyze	Collect	Compare
		APPLICATION	Appraise	Combine	Conclude
		Apply	Categorize	Comply	Estimate
-	COMPREHENSION	Complete	Compare	Compose	Evaluate
	Compare	Construct	Contrast	Construct	Interpret
KNOWLEDGE	Describe	Demonstrate	Debate	Create	Judge
List	Discuss	Dramatize	Diagram	Design	Justify
Name	Explain	Employ	Differentiate	Devise	Measure
Recall	Express	Illustrate	Distinguish	Formulate	Rate
Record	Identify	Interpret	Examine	Manage	Revise
Relate	Recognize	Operate	Experiment	Organize	Score
Repeat	Restate	Practice	Inspect	Plan	Select
State	Tell	Schedule	Inventory	Prepare	Support
Tell	Translate	Sketch	Question	Propose	Value
Underline		Use	Test	Setup	

#### Online ALE Protocol

Step 2: Organize

In light of the recent email from UCF's Interim Chief Equity, Inclusion and Diversity Officer, we need to make some changes to our Zoom online active-learning exercises.

1. Enter the Zoom meeting and wait until you are randomly assigned to a breakout room.

2. Once you are assigned to a breakout room, take note of your breakout room number. This will be your group number.

3. Go to the "People" tab on webcourses. Select the appropriate group depending on the date of the Zoom meeting (example: if the Zoom meeting is on Monday July 6th, then select the "27may20 group").

4. Under the Collaboration Tab, click the "+Start a new collaboration" button.

5. Under "Start a New Collaboration," put the correct Case # and Group # as the document name. Your group number is the same number from step 2.

6. Under "Collaborate with," click on groups and then select your group.

7. Now, you should all be using the same collaborative document (Google Docs or Office 365). Please remember to share your document with Dr. Schroeder or to edit the permission of the collaborative document to anyone with a link.

8. Make sure to communicate effectively with your group members either using the microphone in the Zoom Break-out rooms or by the chat feature in either program. Please do not forget to ask questions of Dr. Schroeder or the teaching assistants when they visit your breakout room or during the Zoom class session in the main room. If any student is found to be loafing/not contributing to the assignment, then that student may receive a grade of 0 at the instructor's discretion.

9. When your group is done with all ten questions for the case, please copy and paste the group chat and put it at the bottom of your document. (this is for safety reasons and helps me to see what I may need to go over in the next class session).

10. We will all move back to the main Zoom room when the allotted time for the case is done.

			webcourses @
Summer 2020	Everyone Groups		+
Modules Syllabus	27may20	S	Summer DM01 > Assignments
Announcements Assignments	27may20 group 127may20 group	UCF Summer 2020 Account Home	Search for Assignment
Quizzes Macmillan Learning	27may20 group 2 27may20 group	Dashboard Syllabus	Overdue Assignments
Zoom Conferences Collaborations	27may20 group 3 27may20 group	Courses Announcements Assignments	Upcoming Assignments
People Discussions	27may20 group 4 27may20 group	Calendar Quizzes Macmillan Learning	Case #5 ALE Due May 27 at 12:50pm   -/5 pts
		Inbox Zoom Conferences	Case #6 ALE Due May 27 at 12:50pm   -/5.pts
		Help Collaborations People	Chapter 15 Quiz Due May 31 at 11:59pm   -/5 pts

#### Step 3: Implement

#### Zoom class Timeline

- 2:30 PM Discuss Chapter 3 (i.e. first half of chapters this week)
- 2:45 PM Introduce Case #19
- 2:50 PM Start Breakout room for each group
  - Then go to Webcourses under the People tab and join the <u>21jan21 group</u> matching the same number as your breakout room number. Then, start a collaborative document under the Collaborations tab. Do not forgot to add Dr. Schroeder to your collaborative document
- 3:10 PM Bring all groups back to main room to discuss questions and answers.
- 3:20 PM Discuss Chapter 8/9 (i.e. last half of chapters this week)
- 3:35 PM Introduce Case #4
- 3:40 PM Send groups back to their Breakout rooms
- 4:00 PM Bring all groups back to main room to discuss questions and answers
- 4:10 PM Answer last minute questions
  - Class ends at 4:20 PM
  - Remember to turn in the link to your case assignments to Case #19 and Case #4

## COVID-19 Case

- Coronavirus Infectious Disease-19 also ki receptors on a human cell surface to inside the respiratory illness first detected in Wuhar space protectary does not human cells. Nowever it specifications and space protectary does not construct a space protectary of construct a space protectary does not construct a space protectary of c respiratory illness first detected in world Acute Respiratory Syndrome Coronavirus deaths in the US and 1.6 million deaths gl splat from the SARS-support rapid reserving advances, the prome support rapid reserving advances, the prome support rapid reserving advances, the prome support rapid reserving advances are pro-ted by support rapid reserving advances are pro-proven based on support rapid reserving advances of related protein based on support rapid reserving advances of related protein based on support rapid reserving advances of related protein based on support rapid reserving advances of related protein based on support rapid reserving advances of related protein based on support rapid reserving advances of related protein based on support rapid reserving advances of related protein based on support rapid reserving advances of related protein based on support rapid reserving advances of related protein based on support rapid reserving advances of related at protein based on support rapid reserving advances of related at protein based on support rapid reserving advances of related at protein based on support rapid reserving advances of related at protein based on support rapid reserving advances of related at protein based on support rapid reserving advances on support rapid reserving advances on related at protein based on support rapid reserving advances on related at pro-ted advances on support rapid reserving advances on related at pro-serving advances on support rapid reserving advances on related at pro-serving advances on related at pro-serving a
- . Researchers found that the SARS-CoV-2 si committees was isolated at a lab located at human cells than the spike from the SARS Vaccine Research Center (VRC). genome sequence of the new coronaviru; in addition to the spike protein, the m genome predicted to encode for its spike a dug target becaue of the established in the second at a lab located at the University processing the polyprotect of the established to in the processing the polyprotect of the second at the University processing the polyprotect of the polyprotect of the second at the University processing the polyprotect of the second at the University processing the polyprotect of the second at the University processing the polyprotect of the second at the University processing the polyprotect of the second at the University processing the polyprotect of the second at the University processing th
- In addition to the spike protein, the main protein have been several mutations that have or CoV-2 (2019). National Public Health Laboratory in Kathinandu. Nepal, submitted the final sequence to the WHO laboratory in Kathinandu. Nepal, submitted the final sequence to the WHO laboratory in Kathinandu. Nepal, submitted the final sequence to the WHO laboratory in Kathinandu. Nepal, submitted the final sequence to a single, possible of the Single Sin
- laboratory who commend that the the list at compare the start and the start and the start at compare the start at compare the start at compare the start at compare the start at the start (18.39%) cytosines, 5,852 (19.63%) guani Greener (ARS-Col-2) term isotate in head (18.39%) cytosines, 5,852 (19.63%) guani

Zhang et al. Crystal structure of SARS-CoV-2 main protease provides a basis for d

COVID-19 Case and Testing COVID-19 Case and Testing Como Viva Intecious Direas-19 also known as COVID-19 has been identified as the causative agent of a respiratory liness first detected in Wuhan, China an 2019. In solentific literature it is known as Severe Acute Respiratory Syndrome Cononavirus 2 (SARS-CoV-2). The virus is now responsible for at least 272,555 deaths in the US and 1.5 million deaths globally as of December 3, 2020 (two WHO).

Like most viruses, the coronavirus attaches to

ad be is of SARS-Col/ (2003) and SARS-Col/-

ename Sequence of a 2019 N (-2) Strain Isolated in Negal J

rs. Science, 368, 409-412 (2020).

#### Questions

1. What are the components of a virus? How does this compare to the structural component of prokaryotes and eukaryotes? How do coronaviruses infect host cells? (to go deeper, what are the structural componen coronavirus that make it unique?) ts of the

2. Mutations in various SARS-CoV-2 proteins have caused to become more virulent than other coronaviruses. This increased virulence due to amino acids interacting more strongly with other molecules. Classify the 20 amino acids into groups and list what type of borderlatestropes active more per make. Allo bonds/interactions each group can make. Also, define each type of bond/interaction.

3. Several mutations were discovered in the tapke protein. For the following 3 mutations, indicate what hand of mutation occurred. a. 187825 in ORF1a, codons AGT to AGC b. 195615 in ORF1a, codons UUA to UCA c. L15607L in ORF1b, codons UUA to UCA

agent of a Severe

st 299.300

2 on ices, the

 Mutations were also discovered in the main protease (M<sup>IIII</sup>). Explain why a T285A makes COVID-19 more virulent than an S284A or 1286L

ece of the 5. What is gPCR and RT-gPCR? Explain the steps in each. How is reverse transcriptase vas utilized?

ter (VRC). 6. RT-PCR is being used widely to test for COVID-19, why do you think this is? What does this say about the specificity and sensitivity of g target the results of the test? 7. Draw the DNA coding template for the following RNA sequence that is a part of the coronavirus 5-UAAUCAGACAAGGAACUGAU There

nd SARS-8. What is CRISPR? Explain the step by step process of how CRISPR works?

9. How can CRISPR be used to help develop a HO therapeutic agent for the coronavirus?

10. It is hypothesized that mutating a gene that cositive-codes for the spike protein may inhibit its ability 5,482 to attach to a host's cell and cause further infection. Explain how site directed mutagenesis can help with this.

Sah et al. Complete Genome Sequence of a 2019 Novel Coronavirus (SARS-CoV-2) Str. th. 1.0 are in 1.0 are in 1.0 are in 2010 Microbiology Resource Announcements March 2020, 9 (11) e00169-20; DOI: 10.1128/MRA.00169-20

#### Step 3: Implement

#### **COVID-19 Case Questions**

1. What are the components of a virus? How does this compare to the structural components of prokarvotes and eukarvotes? How do coronaviruses infect host cells? (to go deeper, what are the structural components of the coronavirus that make it unique?)

2. Mutations in various SARS-CoV-2 proteins have caused it to become more virulent than other coronaviruses. This increased virulence is due to amino acids interacting more strongly with other molecules. Classify the 20 amino acids into groups and list what type of bonds/interactions each group can make. Also, define each type of bond/interaction.

3. Several mutations were discovered in the spike protein. For the following 3 mutations, indicate what kind of mutation occurred.

a. T8782S in ORF1a, codons AGT to AGC

b. L9561S in ORF1a, codons UUA to UCA

c. L15607L in ORF1b. codons CUA to UUA

4. Mutations were also discovered in the main protease (MPR). Explain why a T285A makes COVID-19 more virulent than an S284A or I286L.

5. What is gPCR and RT-gPCR? Explain the steps in each. How is reverse transcriptase utilized?

6. RT-PCR is being used widely to test for COVID-19, why do you think this is? What does this say about the specificity and sensitivity of the results of the test?

7. Draw the DNA coding template for the following RNA sequence that is a part of the coronavirus:5'-UAAUCAGACAAGGAACUGAUUA-3'

8. What is CRISPR? Explain the step by step process of how CRISPR works?

9. How can CRISPR be used to help develop a therapeutic agent for the coronavirus?

10. It is hypothesized that mutating a gene that codes for the spike protein may inhibit its ability to attach to a host's cell and cause further infection. Explain how site directed mutagenesis can help with this.





Step 3: Implem

Step 4: Evaluate

1. What are the components of a virus? How does this compare to the structural components of prokaryotes and eukaryotes? How do coronaviruses infect host cells? (to go deeper, what are the structural components of the coronavirus that make it unique?)

Anatomy of a virus The covid-19 virus has several features we may be able to target with drugs to break it down and stop it entering cells

RNA enclosed in protein Spike protein — Lipid membranes



Coronavirus (RNA virus)	Prokaryotes	Eukaryotes
Have Lipid membrane and Capsid	Have cell membrane	Have cell membrane
Cytoplasm	Cytoplasm	Cytoplasm
RNA enclosed in protein	DNA in nucleoid	DNA in nucleus
Use host's ribosomes	Have ribosomes in cytosol	Have ribosomes in cytosol
		Have membrane- enclosed organelles
Spike glycoprotein		
ed, producing		

How do coronaviruses infect host cells? - The protein spikes latch onto human cells, then

undergo a structural change that allows the viral membrane to fuse with the cell membrane. - The viral genes can then enter the host cell to be copied, pro-

more viruses.

 Recent work shows that SARS-CoV-2 binds to receptors on the human cell surface called angiotensin-converting enzyme 2 (ACE2).

#### **Student Perception of Curriculum**

Positive	Count	Negative	Count	Other	Count	A Sta Bana
Application of what is learned with practice	31	Too much to learn/overwhelming	17	Need better terminology descriptions/a key terms page	1	Same
Cooperative learning	20	Less time for review in class	11	Need explanations for why something is right	4	
Awareness of what they need to know/learning objectives	13	Difficult to adjust to easy to fall behind	10	Appreciates requests for feedback	1	
Saves time (travel, schedule, etc.)	8	Too much busy work/homework	7	Improve or change online video lectures	4	Carl & Part
Reinforces information	8	Too much is self-taught not enough lecture covered	20	More professor accessibility outside of class needed	2	144
Flipped classroom material online is helpful	3	Difficult to understand	10	More concise resources needed	2	
Can work at your own pace	5	Not ordered enough or focused	6	Consider slowly increasing homework over time	1	
Students are responsible for the learning	3	Less time to ask questions	8	More games	2	
Reminder to look over material beforehand	4	Practice in class may not match test format/irrelevant	14	Time put in equates to your grade	1	
Homework is helpful	4	More practice questions/activities needed	8	Offer extra credit	1	
More time to ask the professor questions	3	Group members not prepared/fear of group work	7	Professor will not tell me what to study/focus on	3	
Helped with time management skills	3	Need to study before class	3	Need more teaching assistant interaction/utilization	1	
It is fun/I enjoy it engaging	10	Boring	2			
Gives idea of what exam questions might be like	3					
More digestible input/multiple ways to learn or present information	9					
Helps with studying	7					

### **Frequentist and Bayesian Statistical Findings**

- The results from this study indicate final exam score is higher in the CBL curriculum.
- The average grade on the final exam was higher in the CBL curriculum semester (M= 81.9, SD= 13.262) versus the standard curriculum (M= 71.57, SD= 10.572)
- Instructors implementing this curriculum should expect an increase in scores between 3.539% and 17.112% on their medical biochemistry final exams

				95%	CI	10000	95%	Crf		95% CI	
Exam	r-value	df	p-value	Lower	Upper	BFei	Lower	Upper	Cohen's d	Lower	Upper
					Include	ng Grades fro	en Withdrawal	a la			
1	-1.519	57	0.135	-14.31	1.986	1.837	-14.47	2.15	-0.403	-0.930	0.129
2	-1.537	56	0.13	-11.812	1.557	1.943	-14.47	2.15	-0.401	-0.930	0.132
3	-0.573	48	0.569	-9.318	5.186	4.12	-11.95	1.69	-0.159	-0.721	0.404
4	1.382	48	0.174	-2.057	11.062	2.304	-9.48	5.35	0.379	-0.190	0.944
Final	1.996	48	0.052	-0.051	13.459	0.932	-2.19	11.19	0.562	-0.014	1.132
					Exclud	ing Grades fro	en Withdrawa	ls			
1	-0.547	51	0.587	-10.368	5.933	4.216	-10.54	6.11	-0.370	-0.930	0.195
2	-0.824	51	0.414	-9.472	3.959	3.62	-9.62	4.11	-0.426	-0.995	0.140
3	-0.573	48	0.569	-9.318	5.186	4.12	-9.48	5.35	-0.159	-0.721	0.404
4	1.382	48	0.174	-2.057	11.062	2.304	-2.19	11.19	0.379	-0.190	0.944
Final	3.06	48	0.004*	3.539	17.112	0.1241	3.38	17.27	0.861	0.269	1.444

Mícrobes 🗞 Mages

A games where Microbes can help you survive or maim you from the inside.

- A Role-playing game where players adopt the roles of a Microbial Mage or its Apprentice in a fictional setting.
- Players take charge for acting out these roles within a narrative through a process of structured decision-making regarding character development.





#### Other Ideas that have been suggested

- Live Action Role Play
  - A form of role-playing game where the participants physically portray their characters and enact a plot of the game
- Cosplay
  - I have thought about this numerous times
- Scavenger Hunt
- Family Feud
- Murder Mystery
- Clinical Case Competition Escape Room

#### THANK YOU

#### I WOULD LIKE TO THANK MY CURRENT & PAST TEACHING ASSISTANTS AT UCF

- Dylan Thibaut
- Takuma Iwai
- Joseph Risler
- Gabriela Alonso
- Erika Lytle
- Zainab Baqri
- Jonadab Jaramillo
- Stephanie Pintos
- Zeeshan Ahmed
- Asia Rue
- Khadijah Stephen

- Marianne Sia
- Emily Svara
- Lihlenz Saint-Louis
- Megan Sorg
- Maranda Morgan
- James Chang
- Antonio Mele
- Roberto Spilka
- Nicholas Karppe
- Emelina Asto-Flores
- Rabeea Rehman

- Julia Webb
- Kevin Borges
- Arash Keshavarzi Arshad
- Jie Hao
- Jennifer Collins
- Jannelle Vienneau-Hathaway
- Lauren Allison
- Jessica Huitsing
- Daniel Gonzalez
- 79





#### Try creating Low Stakes modules to help students get engaged early in the course

La	ab 0 - Lab Math module	Complete All Items 🥥 🕂	:
P	Lab Math explanation part #1	0	:
	Lab Math practice quiz #1     Feb 8   2 pts   Submit	0	:
P	Lab Math explanation part #2	0	:
	Lab Math practice quiz #2     Feb 8   2 pts	0	:
F	Lab Math explanation part #3	0	:
	Lab Math practice quiz #3     Feb 8   3 pts	0	:
P	Lab Math explanation part #4	0	:
	Lab Math practice quiz #4 Feb 8   3 pts	0	:



### **Problem-Based Learning Timeline**

- 10:00 AM Introduce assignment & encourage groups of 4-5 to form
- 10:05 AM Chief Complaint displayed
  - Groups list 15-20 different Differential Diagnoses
- 10:20 AM Ask volunteers to discuss their top 3-5 differential diagnoses
- 10:25 AM Display Patient's History & Physical Exam
  - Groups identify key findings in patient's history & physical exam
- 10:45 AM Ask volunteers to discuss their key findings
- 10:50 AM Divulge Diagnostic Test & Lab Results
  - Groups write their Diagnosis, Concepts they brought from other courses, and concepts that they need to research more
- **11:10 AM** Divulge Diagnosis & ask groups to share their final thoughts
- 11:15 AM Class ends

### What is Problem-Based Learning (PBL)?

- PBL is a learner-centered approach.
- **PBL** is about becoming an active, independent, self-directed learner.
- PBL is a great way to put the pieces together and work in groups (learn to be a team-player).
- The goal of PBL is that students use the cases to identify the necessary concepts in order to master the topic
- PBL is not<sup>on</sup>about solving the case or diagnosing the patient; rather, it is about learning the foundational basic sciences relevant to the case

#### How does PBL help instructors to Understand Their Students?

- It allows instructors to see how the students apply the learning objectives towards a case or real-life scenario.
- It allows instructors to see how students interact with each other.
- It encourages instructors to get to know each student including their strengths and weaknesses when studying.
- The students that led the groups were usually the "A" students.

### A study comparing Lecture & PBL classes

- At the end of the semester, the lecture and PBL groups scored the same on the same exam.
- After one year the lecture group scored a 50% on the same exam and PBL group scored an 80%.
- At the end of 4 years the lecture group retained 20% and the PBL group retained 50%.
- This was without review; neither group of students studied the material before either of the retests.
- The importance of this study is the higher retention in a PBL curriculum suggests the PBL students will be better prepared in the future.

Roucebanasari, Roghbabbel, Khazaei, & Tajagijoj. Comparing the long-term retention of a physiology course for medical students with the traditional and problem-based learning. Adv in Health Sci Educ 18:91–97 (2013)

## Thank you for your attention

## Any questions???

Pre-Major Transfer (Non-credit) Webcourses

Dr. Jeff Reinking, Associate Lecturer, Dixon School of Accounting, UCF

### 2021 Curriculum Alignment Conference:

#### ADVANCING CURRICULUM ALIGNMENT PARTNERSHIPS

#### Pre-Major Transfer (Non-credit) Webcourses

Jeff Reinking Associate Lecturer, Dixon School of Accounting, UCF



### Our Goals with this Project

To provide <u>Information</u> and <u>Activities</u> that will help make our transfer students successful at the Dixon School of Accounting, UCF, and their chosen career path.





#### Ways we currently provide Information to our transfer students

- 1. Our Office of Professional Develop does a great job with their orientation for new accounting student transfers.
  - However, it is quite a bit of information to take in for one day.
- 2. Our RSO Accounting clubs had a once a semester formal meeting at UCF with students from the State Colleges before Covid. This will restart once we go F2F again.
- 1. (Mostly) Weekly Newsletter for all accounting students





# Ways we have provided <u>Information</u> to our transfer students previously

We held live orientations for new "Pre-Accounting" majors during the second week of each semester.

- RSO's
- Course sequencing
- Electives
- Recommended Minors
- CPA requirements
- Advising
  Skills needed
- Accounting profession and practice areas
- Masters Degree
- · Attendance at the orientations was very low
- We were not comfortable making these mandatory because we were not comfortable with the available "penalties"





#### <u>Activity</u> that is important for our transfer students to complete before taking ACG 3131 to get into the Major.

Pre-Accou	unting.	Majors > Pages > Free Accounting Cycle Bootcamp in Wiley Plus					
Non-Credit Home		View All Pages Stit I Immersive Reader					
Announcements Modules		Free Accounting Cycle Bootcamp in Wiley Plus					
Assignments	Ø	Wiley Plus Accounting Cycle Bootcamp					
Grades	Ø	WileyPlus, UCF, and our Direct Connect Partners are offering a free Accounting Cycle Boot-camp for all our students to help prepare them for ACG 3131 Intermediate Accounting I. This boot-camp					
People	Ø	is a refresher course for the foundational concepts that you learned in ACG 2021 Principles of Financial Accounting, and these foundational concepts are essential to your success in Intermediate					
Files	Ø	Accounting.					
Syllabus	Ø	This Accounting Cycle Bootcamp is not part of the requirements for UCF's ACG 3131 Intermediate Financial Accounting I at UCF. It will provide an excellent foundation to help you succeed in ACG 3131, but it is not connected to the actual course and your ACG 3131 instructor will not be able to assist you with this Bootcamp.					
Outcomes	Ø	Please see the attached instructions to sign up.					
Rubrics	Ø	Link to registration document for details on how to sign up for the bootcamp					



All of this intersected with my prior work experience...

Analogy – computer training







#### Contents of the Course

- WileyPlus Accounting Bootcamp
- RSO's listing and contacts
- Summer Leadership opportunities and Internships
- Weekly Newsletter how to join
- Accounting profession and Areas of practice
- Course sequencing, Pre-requisites,
- Recommended electives, Recommended minors
- Advising where to go
- CPA licensure requirement
- Scholarships availability and how to apply
- · Masters of Science in Accounting info





#### Measures of Success - need more

- Enrollment in Webcourses Course
  - Webcourses for Pre-accounting 1,074 enrolled Fall 2020
  - Webcourses for Pre-accounting 994 enrolled Spring 2021
- Bootcamp Enrollments
  - Students enrolled in bootcamp for Fall 2019 (with extra credit) 319 not in the Webcourses Course
  - Students enrolled in bootcamp for Fall 2020 (no extra credit) 105
  - Students enrolled in bootcamp for Spring 2021 (no extra credit) 58
- Scholarship Applications

Year	# Applicants
2021	62
2020	17
2019	48
2018	36
2017	29
2016	41
2015	38
2014	33





### Challenges

- Keeping the course up to date
- Messaging students in an environment where they receive too many e-mails already
- How to measure the success and usefulness of the initiative
  - Survey to ascertain usefulness/improvements to course





### Next Adventure(s)

- "Accounting Major" Webcourses
- Starting an Accounting focused Transfer Student Success organization that can be administered through the Webcourses





#### **Questions and Suggestions**



#### **APPENDIX 2: List of Attendees**

Name	Institution	Name	Institution
Alina Stefanov	UCF	Fai Howard	
Allan Danuff	CF	Gabrielle Younker	VC
Alycia Ehlert	DSC	Ginny Kopf	VC
Amanda Norbutus	VC	Graeme Lindbeck	VC
Amber Mullens	UCF	Hannah Jenkins	VC
Amy Comerford	VC	Harrison Oonge	UCF
Amy Locklear	DSC	Heidi Ovalles	VC
Anastasia (Hannah) Harris	VC	Holly Hollins	DSC
Andrew Lieb	EFSC	Isis Artze Vega	VC
Angela Lowman	VC	J Bottesch	EFSC
Angelia Smith	UCF	James Jackson	LSSC
Aref Altawam	VC	Janie Valdés	FIU
Benjamin Ohwovoriole (Ja Orr)	VC	Jeff "Migizi" Melton	
Bianca Monfilston	VC	Jeff Reinking	UCF
Bob Gessner	VC	Jess Schrader	EFSC
C Hudspeth	SSC	Jessica Kester	DSC
Carrie Henderson	FLDOE	Jessica Lipsey	DSC
Carrie Wells	EFSC	Jim McCloskey	VC
Cecilia Larsson	SSC	Jimmy Gamez	DSC
Celena Ziems	VC	Joanne Bedlek-Anslow	SSC
Cheri Cutter	VC	Joanne Kiriazes	VC
Cheryl Robinson [she/her]	VC	John McNutt	VC
Christa Diercksen	UCF	John Weiss	VC
Christine Hanlon (she/her)	UCF	Jonathan Lee	
Christopher Leibner	LSSC	Joseph Brennan	UCF
Collin Gustafson	VC	Joshua Poniatowski	
Dante Leon	DSC	Karen barley	
Debbie Barr	SSC	Karen Endebrock	DSC
Deborah Bradford	UCF	Kerry-Ann Wright	VC
Deidre Seker		Kersten Schroeder	UCF
Delaine Priest	UCF	Kim Maznicki	SSC
Delia M. Garcia	UCF	Kim Small	UCF
Donna Mixon	DSC	Kimberly Hardy	UCF
Eduardo Roman	DSC	Kirby Brown	CF
Eileen Corelli	EFSC	Kristen Chancey	LSSC
Elena Amesbury	CF	Kristin Abel	VC
Erika Kisvarsanyi	CF	Laila Nimri	SSC
Erin Myszkowski	UCF	Laura Blasi	VC

Laura Ross	SSC	Rochelle Swiren	SSC
Leonard Bass	VC	Rohan Jowallah	UCF
Leticia Gonzalez	UCF	Shari Hodgson	UCF
Lianna McGowan	VC	Sidra Van De Car	VC
Lina Williams	SSC	Stephen Summers	SSC
Lisa Cohen-East	VC	Teena Bhajan	VC
Liz Barnes		Teresa Dorman	UCF
Liza Schellpfeffer	VC	Teresa Dorman - COS	UCF
Lynn Hepner	UCF	Theodorea Berry	UCF
Magdala Emmanuel	VC	Tommy Minton	SSC
Marc Campbell	DSC	Upasana Santra	VC
Mark Collins	VC	Van Quach	SSC
Mark Paugh	CF	Zhongzhou Chen	UCF
Max Nagiel	DSC		
Melody Bowdon	UCF		
Mia Pierre-Wall	VC		
Michael Olson	DSC		
Michael Preston (He# His# Him)	UCF		
Michelle Kwon	UCF		
Mohua Kar	VC		
Muzaffer Oztek	SSC		
Nabeel Yousef	DSC		
Nancy Parks	LSSC		
Nataly Lopez	VC		
Nathan Baker	VC		
Nichole Jackson	VC		
Nichole Segarra	VC		
Pam Cavanaugh	UCF		
Pat Ferguson	SSC		
Paul Wilder	VC		
Pedro Patino	UCF		
Pete Nicely	CF		
Rachid Ait Maalem Lahcen	UCF		
Rebekah Lane	VC		
Richard Harmon	SSC		
Richard Vollaro	DSC		
Rob McCaffrey	VC		
Robert			