# Sierra College's Path to Guided Pathways

Presented By:

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Director Enrollment Management and Financial Aid



## **Developed Problem Statement:**

# Students at Sierra are not reaching their educational goals in a timely manner, or at all.





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# Four Pillars of Guided Pathways



Create clear curricular pathways to employment and further education.

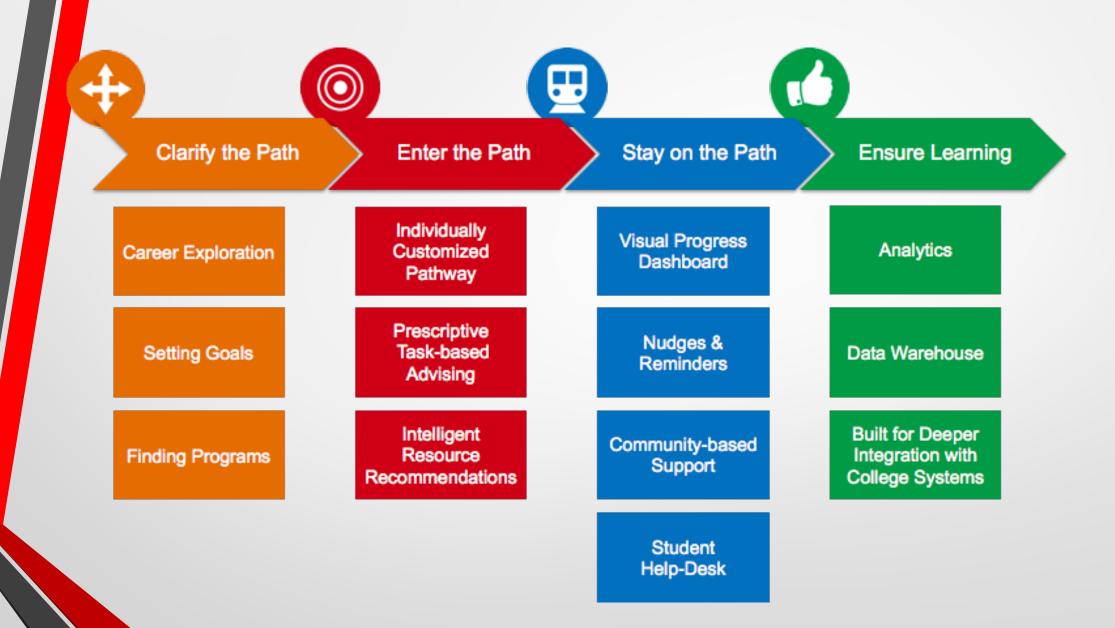


Help students choose and enter their pathway.



Help students stay on their path. Ensure that learning is happening with intentional outcomes.







### Sierra College: Using Guided Pathways to Reach the Vision for Success Goals





# Sierra Commitment before the California College Promise Innovation Grant

- Re-engineering Sierra For Student Success R4S
- Administration allocated resources to the R4S team
- Reassignment of 16 faculty and staff
- Reassignment of two deans
- Financial Aid was at the table



## Began in Fall 2015 with formation of the Reengineering Sierra for Student Success (R4S) Task Force



Facilitated discussions on change management and student momentum points for faculty, classified staff, and managers.

REENGINEERING SIERRA COLLEGE FOR STUDENT SUCCESS



#### Spring 2017 - organized 150 programs of study

Administration of Justice Administration of Justice for Transfer: AS-T Degree \* Administration of Justice-Corrections Concentration: AA/AS Degree Administration of Justice—Courts Concentration: AA/AS Degree Administration of Justice—Law Enforcement Concentration: AA/AS Degree \* Reserve Peace Officer: Skills Certificate Agriculture \* Sustainable Agriculture: AS Degree \* Sustainable Agriculture: Certificate of Achievemen \* Sustainable Agriculture Business: Skills Certificate Anthropology Anthropology for Transfer: AA-T Degree Applied Art and Design Applied Art and Design—Graphic Design Concentration: AA/AS Degree Applied Art and Design—Illustration Concentration: AA/AS Degree Applied Art and Design—Multimedia Concentration: AA/AS Degree \* Applied Art and Design-Graphic Design Concentration: Certificate of Achievement Applied Art and Design—Illustration Concentration: Certificate of Achievement \* Applied Art and Design-Multimedia Concentration: Certificate of Achievement \* Digital Illustration: Skills Certificate Graphic Design: Skills Certificate Video Production and Editing: Skills Certificate \* Visual Arts and Media: Skills Certificate Web Design: Skills Certificate \* Studio Arts for Transfer: AA-T Degree \* Studio Art: AA Degree Art History \* Art History for Transfer: AA-T Degree \* Art History: AA Degree Automotive Technology Automotive Analysis: AA/A5 Degree • Air Conditioning and Body Electrical: Certificate of Achievement Alignment and Brake: Certificate of Achievement \* Automatic Transmission: Certificate of Achievement Automotive Engine Machining: Certificate of Achievement Emission and Driveability Tune-Up: Certificate of Achievement Master Automotive Technician: Certificate of Achievement \* Powertrain: Certificate of Achievement \* Entry Level Automotive Service and Repair: Skills Certificate **Biological Sciences** \* Biology for Transfer: AS-T Degree \* Biological Sciences: AS Degree \* Watershed Ecology: AS Degree

\* Watershed Ecology: Certificate of Achievement Business \* Business Administration for Transfer: AS-T Degree \* Accounting: AA/AS Degree Administrative Professional: AA/AS Degree Business Administration: AA/AS Degree \* Business Entrepreneurship: AA/AS Degree General Business: AA/AS Degree \* Management: AA/AS Degree \* Marketing: AA/AS Degree \* Real Estate: AA/AS Degree \* Accounting: Certificate of Achievement \* Administrative Professional: Certificate of Achievement Business Entrepreneurship: Certificate of Achievement \* General Business: Certificate of Achievement \* Management: Certificate of Achievement \* Marketing: Certificate of Achievement \* Real Estate: Certificate of Achievement \* Small Business: Skills Certificate Chemistry Chemistry for Transfer: AS-T \* Chemistry: AS Degree Communication Studies \* Communication Studies for Transfer: AA-T Degree · Journalism for Transfer: AA-T Degree Communication Studies—General Concentration: AA/AS Degree Communication Studies—Graphic Design/Multimedia Concentration: AA/AS Degree Communication Studies—Mass Communication Concentration: AA/AS Degree Computer Information Systems \* Computer Information Systems-Computer Applications Concentration: AA/AS Degree \* Computer Information Systems-Networking Concentration: AA/A5 Degree Computer Information Systems— Technical Support Concentration: AA/AS Degree \* Virtual Office Professional-Administrative Concentration: AA/AS Degree Computer Information Systems— Computer Applications Concentration: Certificate of Achievement Computer Information Systems— Networking Concentration: Certificate of Achievement Computer Information Systems— Technical Support Concentration: Certificate of Achievement · Virtual Office Professional-Administrative Concentration: Certificate of Achievement Digital Literacy: Skills Certificate

\* Information Assurance and Cyber Defense: Skills Certificate Information Assurance Technician (Level 1): Skills Certificate Information Assurance Technician (Level 2): Skills Certificate Computer Science \* Computer Science for Transfer: AS-T Degree Computer Science—Computer Science Concentration: AA/AS Degree Computer Science—Management Information Systems Concentration: AA/AS Degree \* Computer Science—Embedded Systems Concentration: Certificate of Achievement Computer Science—Web Programming Concentration: Certificate of Achievement Construction and Energy Technology Construction Management: AS Degree \* Energy Technology: A5 Degree Residential Building Construction: AA/AS Degree Energy Technology: Certificate of Achievement \* Residential Building Construction: Certificate of Achievement Photovoltaic: Skills Certificate \* Photovoltaic Advanced: Skills Certificate Deaf Studies Deaf Studies—American Sign Language: AA Degree Deaf Studies—American Sign Language: Certificate of Achievement Drafting and Engineering Support Drafting and Engineering Support— Architectural/Civil Concentration: AA/AS Degree \* Drafting and Engineering Support-Mechanical/Civil Concentration: AA/AS Degree \* Drafting and Engineering Support— Architectural/Civil Concentration: Certificate of Achievement \* Drafting and Engineering Support-Mechanical/Civil Concentration: Certificate of Achievement Architectural Drafting Specialist: Skills Certificate Drafting Essentials: Skills Certificate Mechanical Drafting Specialist: Skills Certificate Drama \* Theatre Arts for Transfer: AA-T Degree \* Theater Arts: AA Degree \* Stagecraft: Skills Certificate Costuming: Skills Certificate Earth Science Geology for Transfer: A5-T Degree \* Geology: AS Degree Economics \* Economics for Transfer: AA-T Degree Education \* Elementary Teacher Education for Transfer: AA-T Degree

\* Liberal Studies—Elementary Education: AA Degree Engineering \* Engineering: AA/AS Degree \* Civil Engineering Technology: Certificate of Achievement General Engineering Technology. Certificate of Achievement English \* English for Transfer: AA-T Degree \* English: AA Degree English as a Second Language English as a Second Language Academic Preparedness: Skills Certificate Environmental Studies and Sustainability \* Environmental Studies and Sustainability: AS Degree Fashion Fashion Industries: AS Degree \* Fashion Industries: Certificate of Achievement \* Fashion Design: Skills Certificates \* Fashion Merchandising: Skills Certificates **Fire Technolog**  Fire Technology: AA/AS Degree \* Fire Technology: Certificate of Achievement Geography \* Geography for Transfer: AA-T Degree \* Geographic Information Systems (GIS): **Skills** Certificate History \* History for Transfer: AA-T Degree . History: AA Degree Human Development and Family \* Early Childhood Education for Transfer: AS-T Degree Early Childhood Education: AA/AS Degree Early Childhood Education—Master Teacher: AA/AS Degree \* Early Childhood Education—Site Supervisor: AA/AS Degree \* Early Childhood Education Teacher Certificate of Achievement Early Childhood Education Associate Teacher: Skills Certificate Humanities \* Humanities—Asian Studies: AA Degree \* Humanities—Diverse Perspectives: AA Degree \* Humanities-General: AA Degree Lesbian, Gay, Bisexual and Transgender Studies \* Lesbian, Gay, Bisexual and Transgender Studies: AA Degree Liberal Arts Arts and Cultures: AA Degree Mathematics \* Mathematics for Transfer: AS-T Degree \* Mathematics: AA/A5 Degree Mechatronics \* Mechatronics Technology: AA/AS Degree \* Mechatronics Technology: Certificate of Achievement \* Electro-Mechanical: Skills Certificate

Music \* Music for Transfer: AA-T Degree \* Music: AA/AS Degree Natural Science \* Natural Science Nursing, Registered \* Registered Nursing: AA/AS Degree Nutrition and Food Science Nutrition and Dietetics for Transfer: A5-T Degree Nutrition and Fitness: Certificate of Achievement Philosophy · Philosophy for Transfer: AA-T Degree Philosophy: AA Degree Photography Photography: AA/AS Degree \* Photography: Certificate of Achievement \* Alternative Processes in Photography: **Skills** Certificate Color Photography: Skills Certificate \* Digital Imaging: Skills Certificate Landscape Photography: Skills Certificate Narrative Photography: Skills Certificate Photographic Processes: 5kills Certificate Portrait, Fashion and Wedding Photography: Skills Certificate Physical Education Kinesiology for Transfer: AA-T Degree Physical Education: AA/AS Degree Physics Physics for Transfer: AS-T Degree Physics: AS Degree Political Science Political Science for Transfer: AA-T Degree Psychology Psychology for Transfer: AA-T Degree Psychology: AA/A5 Degree **Recreation Management**  Recreation Management: AA/AS Degree \* Recreation Specialist: Certificate of Achievement Social Science Social and Behavioral Sciences: AA/AS Degree 5ociology \* Sociology for Transfer: AA-T Degree Spanish \* Spanish for Transfer: AA-T Degree Welding Technology Welding Technology: AA/AS Degree \* Welding: Certificate of Achievement \* Gas Metal Arc Welding: Skills Certificate Gas Tungsten Arc Welding: Skills Certificate Metal Fabricator and Designer: Skills Certificate Shielded Metal Arc Welding: Skills Certificate Welding Entrepreneurship: Skills Certificate Women and Gender Studies \* Women's Studies: AA Degree



### Fall 2016 - created templates for each degree and certificate

#### Before

2016-2017 SIERRA COLLEGE Date:								
AA OR AS ASSOCIATE DEGREE REQUIREMENTS								
I. GENERAL EDUCATION BREADTH:		Units						
Natural Sciences (For an A.S. degree, must complete an underlined laboratory science course or course combination)	Required	Have	Need					
Life Sciences: Agriculture 156, 198, 200; Anthropology 1, 1/1/L, 10; Astronomy 7; Biological Sciences 1, 2, 3, 4, 5, 6, 74/78, 8A/89, 10, 11, 14, 15, 21, 24, 30, 33, 35, 36, 55, 56, 58/56L, Environmental Studies and Sustainability 1, 6, 10, 14; Psychology 140, 140/140L           Psychology 140, 140/140L         Physical Sciences: Agriculture 221; Astronomy 2, 211, 2/14, 5, 5/11, 5/14, 7, 10, 10/11, 10/14, 25; Chemistry 1A, 18.	3							
<u>P2A, 2B, 3A, 3B: Earth Science 1, 1/1/L, 2, 3, 3/3L, 7, 10, 10/10L, 14, 15, 15/15L; Environmental Studies and Sustainability 1, 6, 7, 10; Geography 1, 1/1L, 4; Mathematics 30; Mechatronics 1; Physics 10, 10/10L, 105, 105/105L, 110, 110/110L, 205, 205/205L, 210, 210/210, 215, 215/215L Social and Behavioral Sciences</u>								
Behavioral Sciences: Anthropology 2, 4, 5, 6, 7, 9, 12, 14, 27, Communication Studies 1, 3, 5, 7, 8, 10, 70, 17, 72; Environmental Studies and Sustainability 1; Geography 3; Human Development and Family 1, 4, 9, 21, 22, 25; Humanities 3; Nutrition and Food Science 10, 14; Psychology 100, 103, 104, 105, 106, 107, 108, 110, 127, 130, 150, 160           P10; Social Science 10, 13; Sociology 1, 2, 3, 4, 5, 9, 20, 24.           Social Sciences: Administration of Justice So: Agriculture 196, 198, 215; Business 49; Economics 1A, 18; Fashion 15; Geography 2, 3, 5; History 4A, 4B, 17A, 17B, 18A, 18B, 19A, 19B, 20, 21, 22, 23, 24, 25, 27, 50, 51; Humanities 9; Lesbian, Gay, Bisexual, and Transgender Studies 1; Politica Science 1, 2, 3, 4, 7, 8, 9, 12, 16, 17, 27; Psychology 170; Social Science 20, 25, 30, 35, 50; Sociology 10, 27; Women and Gender Studies 1, 2, 3, 4	3							
Humanities								
Fine Arts: Applied Art and Design 44, 60; Art 2, 3; 4A, 4B, 5A, 6C; 7A, 8A, 9A, 12A, 17, 16A, 18B, 19; 20; 22; 42; 23; 44, 40A, 41; Art History 101, 110; 120; 130; 132; 134; 140, 160; 165; Communication Studies 6; Drama 10A, 13, 16A, 21; English 18, 19, 20; 21; Fashion 12; Humanities 1, 2, 3; Music 2, 6A, 6B, 9A, 9B, 10, 11, 12A, 12B, 13, 39A, 39B, 39C, 39D, 40A, 40B, 40C, 40D, 40, 47, 46, 50, 54; Photography 10, 60A, 65.           Uiterature and Language: Applied Art and Design 12; Communications Studies 6; Draz, 24, 27; 24, 27; 42; 42; 44; 45; 46A, 40B, 47A, 47B, 48; 140; 14B, 140; 14B, 140; 14B, 140; 54B, 47B, 48; 47A, 47B, 48; 147A, 17B; 14B, 181, 149, 180; 140; 140; 24; 27; 20; 30A, 30B, 32; 33; 34, 35; 37; 38, 40, 41; 42, 44, 45, 46A, 46B, 47A, 47B, 48; French 1; 2, 3; 4; German 1; 2, 1; History 4A, 4B, 17A, 17B; 14B, 181, 149, 14B; 192, 102; 27; 2, 27; 50, 51; Human Development and Family 44; Humanities 5, 8; 10, 15; 17, 20, 21; Italian 1, 2, 3; Japanese 1, 2; Lesbian, Gay, Bisexual, and Transgender Studies 2; Philosophy 2, 4, 6; 10, 15, 15; 02, 21, 22, 47, 30, 50, 60; 55; Social Science 50; Spanis 1, 2, 3, 4; 15; 16; 17, Wormen and Gender Studies 3.	3							
Language and Rationality								
1. English Composition: English 1A, 12. (Grade of "C" or better required).	3							
D Science 10: English 1B, 1C, 11, 24; Mathematics B, D, 6, 10, 12, 13, 15, 16A, 16B, 17, 18, 19, 24, 29, 30, 31, 32, 33, 42; Philosophy 4, 12, Psychology 105, 142; Sociology 15.	3							
Health Education/Physical Education								
Administration of Justice 60; Health Education 1, 2, 10; Health Sciences 2, 7, 12; Human Development and Family 61; Kinesiology 3A, 3B, 45, 6A, 5B, 67, 8, 9, 10, 11, 16, 19, 20, 23, 24, 26, 27, 29, 30, 31A, 31B, 32, 33, 34, 35A, 40, 41, 42, 43, 50A, 50B, 51, 52, 53, 54, 55, 62, 68, 69, 71, 72, 73, 74, 75, 80, 61, 83, 84, 86, 96, 97; Nursing Assistant 3; Nutrition and Food Science 5, 10, 13, 14; Personal Development 1, 70; Psychology 130, 150; Recreation Management 70, 71, 72; Sociology 5.	2							
Multicultural Studies								
Anthropology 2, 4, 7, 9, 14, 27, Art History 132, 140, 150, 155; Business 55; Communication Studies 7, 10; Deaf Studies 3, 4, 10; English 16, 24, 27, 47A, 47B; French 3, 4; Geography 2, 3, 5; History 17A, 17B, 18A, 18B, 19A, 19B, 20, 21, 23, 24, 25, 27, 50, 51; Human Development & Family 25; Humanities 3, 9, 10; Italian 3; Japanese 1, 2; Lebian, Gay, Biezvual, and Transgender Studies 1, 2; Music 11; Philosophy 13, 15, 27; Political Science 7, 9, 27; Psychology 103, 127; Registered Nursing 24; Social Science 10, 13, 20, 25, 30, 35, 50; Sociology 3, 10, 27; Spanish 3, 4; Wormen and Gender Studies 1, 2, 3, 4.	3							
II. LEARNING SKILLS: (Courses used to fulfill learning skills may also be used for major and/or general education.)								
Writing: Completion of one of the following courses with grade of "C" or better:           English 1A, 12.	0							
2 Reading: Completion of one of the following courses with grade of *C* or better: English 1A, 11.	(0-3)							
Oral Communications: Demonstrated proficiency by ONE of the following:           1. Completion of one of the following courses with grade of 'C' or better: Business 85, 102; Communication Studies 1, 2, 3, 5, 8; Drama 10A, 10B; English as a Second Language 40L; Personal Development 9; OR           2. Written petition certifying acceptable experience and an oral performance to demonstrate proficiency (no college units granted).	(0-3) Petition or Course							
Mathematics: Demonstrated proficiency by ONE of the following:         1. Completion of one of the following courses with grade of "C" or better. Mathematics B, D, or higher; Psychology 142; Sociology 15; OR           4         2. Completion of one year (or block schedule equivalent) of Algebra II or Integrated Mathematics III or higher level mathematics in high school with grades of "C" or better (no college units granted); OR           3. Minimum score on ACT 025 or SAT of 560 (no college units granted).         Part	(0-6) Exam or Course							
TOTAL GENERAL EDUCATION BREADTH AND LEARNING SKILLS UNITS:	20-32							

#### After

#### Associate of Arts for Transfer - Anthropology

YEAR ONE			
Fall Semester	Units	Spring Semester	Units
MAJOR REQUIREMENTS		MAJOR REQUIREMENTS	
ANTH 1	3	ANTH 5	3
ANTH 1L	1	ANTH 6	3
ANTH 2	3		
MAJOR ELECTIVES		MAJOR ELECTIVES	
GENERAL EDUCATION (for degree or transfer)		GENERAL EDUCATION (for degree or transfer)	
ENGL 1A	3	ENGL 1B or PHIL 4	3
SOC 15 or MATH 13	3-4	HIST 18A, 18B, 25, or 27	3
Transferable Elective		Transferable Elective	3
Total Semester Units:	15	Total Semester Units:	15
YEAR TWO			
Fall Semester	Units	Spring Semester	Units
MAJOR REQUIREMENTS		MAJOR REQUIREMENTS	
ANTH 7 or ANTH 4	3		
MAJOR ELECTIVES		MAJOR ELECTIVES	
		ANTH 9 or ANTH 10 or ANTH 12 or ANTH 14 or ANTH 27	3
		ANTH 9 or ANTH 10 or ANTH 12 or ANTH 14 or ANTH 27	3
GENERAL EDUCATION (for degree or transfer)		GENERAL EDUCATION (for degree or transfer)	
COMM 3 or COMM 5	3	SSCI 50 or ARHI 132 or ARHI 140 or ARHI 150 or ARHI 155	3
PSYC 130 or HDEV 1 or NUTF 10	3	SSCI 25 or LGBT 2 or WMST 3	3
GEOG 1 or ESCI 10 or ESCI 1	3	POLS 1	3
Transferable Elective	3		
Total Semester Units:	15	Total Semester Units:	15
			60

#### ...Into 9 Interest Areas





Applied Technology



Business and Innovation



Earth and Environment



Education



Language and Literature



People, Culture and Society



Public Safety, Health and Wellness



Science, Technology, Engineering and Math



Visual and Performing Arts



### Sierra College: Using Guided Pathways to Reach the Vision for Success Goals





# New Systems Design Thinking:

• How can we *support our at-risk and equity populations* who have declared a major for financial aid eligibility but are really undecided about their goal?

• How can we provide career exploration activities to help undecided students make informed choices, reduce excess units and increase completion rates?



## Spring 2018 - began to integrate and resource career planning



Clarify the Path



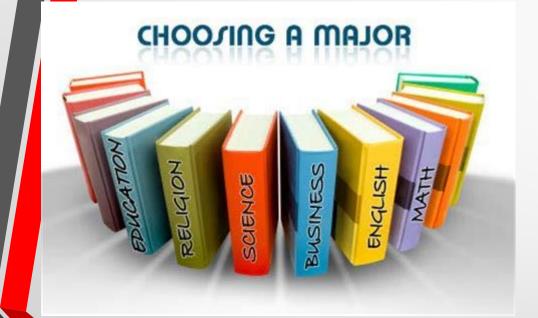






# Old Paradigm: What's your major?

### New Paradigm: What's your career goal?







# Customized Career Coach to our region and our programs.

Q

mySierra

# Academics

Programs, courses and support to help you open new doors.

#### **Get Started Here**





View the Academic Calendar



View Online Catalog

#### **Electronic Drafters**

Draw wiring diagrams, circuit board assembly diagrams, schematics, and layout drawings used for manufacture, installation, and repair of electronic equipment.

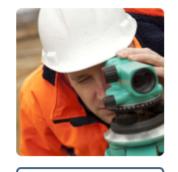




#### **Mapping Technicians**

Calculate mapmaking information from field notes, and draw and verify accuracy of topographical maps.





🗘 Save

#### **Civil Engineering Technicians**

Apply theory and principles of civil engineering in planning, designing, and overseeing construction and maintenance of structures and facilities under the direction of engineering staff or physical scientists.





Q Search

Login

Sign Up

Assessment Careers Programs

### Welcome to Career Coach

Discover majors and in-demand careers and education based on your interests!

#### Take Career Assessment

Take a Career Assessment to learn about yourself and Career Coach will give you career suggestions based on your interests.

#### Take the Assessment

#### **Browse Careers**

Browse or search for careers and we will give you relevant data on wages, employment, and the training you need.

Q

Search for Careers	arch for Careers
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#### Or Browse all Careers

#### **Browse Programs**

Browse or search for the available programs that lead to the career you want.

Search for Programs

Q

Or Browse all Programs

#### **Detailed Assessment**

60 questions

6 questions

**Quick Start Assessment** 

## Created Career Development Continuum with targeted activities

Career Exploration

- Choose an Interest Area
- Career & skills assessments
- Attend career fairs, events, activities

Career Confirmation

- Comprehensive
   Education Plan
  - Job Shadowing
  - Informational Interviews

Career Preparation

Certain

- Internships
- **R**esume writing
  - Portfolios
  - Interview
     Preparation

US Department of Education regulations regarding financial aid eligibility don't align with the concept of Meta Majors. Students must declare a major to be eligible.







Made a proposal to Vice Chancellors Perez and Mohr and Executive Vice Chancellor Hope to use "General Studies" for each Interest Area

Chancellor's Office researched implications, including legal ramifications, and agreed to prototype the solution with Sierra as the test case with the caveat that undecided students must be guided to a program of study within one year



Articulation Officer created 9 new General Studies programs, one for each Interest Area and flagged them as Financial Aid eligible

New programs uploaded to CCCApply using student-friendly language

Created flags in *Starfish* identifying students who didn't declare a major

Created Financial Aid processes to ensure students will only receive aid for one year

Providing interventions (e.g. workshops, counseling, informational interviews, job shadows) to help them select a program of study based on career goal by not later than the end of their second term

Went live in CCCApply for Spring 2019 applicants



### Sierra College CCCApply Screen Shot

ntended Major or Program of Study	
Select	
Select	
I haven't decided - People/Culture/Society	
Anthropology- AA -T Degree	
Art History- AA -T Degree	
Comm Studies- AA -T Degree	
History- AA -T Degree	
Humanities- Aian Studies- AA Degree	
Humanities-Diverse Perspec- AA Degree	
Humanities-General- AA Degree	
Journalism- AA -T Degree	
LGBT Studies- AA Degree	
Philosophy- AA -T Degree	
Philosophy- AA Degree	
Political Science- AA -T Degree	
Psychology- AA -T Degree	
Psychology- AA Degree	
Psychology- AS Degree	
Social Justice Studies- AA -T Degree	
Social and Behavioral Sci- AA Degree	
Social and Behavioral Sci- AS Degree	



## Spring `19 application counts to date under a "soft launch"

	Declared a specific major	Chose Interest Area (but not a major)	
Applied Technologies	2085	246 12%	
Business and Innovation	1505	362 24%	
Earth and Environment	267	147 55%	
Education	598	363 61%	
Language and Literature	300	146 49%	
People, Culture and Society	889	185 21%	
Public Safety, Health and Wellness	2134	231 11%	
Science, Technology, Engineering and Math	1182	323 27%	
Visual and Performing Arts	627	226 36%	
Total Spring 19 Applicants to date	9587	2229 24%	



### Sierra College: Using Guided Pathways to Reach the Vision for Success Goals





# We are in organized chaos

- Financial Aid Policies are fined tuned to be student friendly
- A&R and Financial Aid try to align when possible
- Verification efficiencies
- Technology efficient
- I have a bubble of seasoned financial aid staff and colleges across the state
- I hire people with soft skills first
- Financial Aid is at the table for every major move our campus makes





