SOLANO
COMMUNITY COLLEGE

Areas of Emphasis
Solano Community College

Proposed Outcomes:

- To share development process to date, including how course sequence mapping informs current work;
- To introduce proposed Areas of Emphasis at SCC;
- To share how Areas of Emphasis will inform student access to programs;
- To solicit discipline feedback on Areas of Emphasis, placement of programs in Areas, questions associated with Areas, and planning for student experience
- As time allows, to respond to immediate questions and feedback, including the revisiting of details, as needed

Reminders:
Work to Date: GP & Course Sequencing

- Analysis of current data trends of students in their first-year at SCC, as well as how these data points relate to Guided Pathways, First-Year Experience (FYE), and the Funding Formula
- Submission of Program Maps for Associate Degrees for Transfer (ADTs) and some CTE Programs
- Analysis for duplicative or similar recommended sequences for submitted programs with emphasis on the first year—
  - To develop draft templates for FYE
  - To draft Areas of Emphasis at SCC based on faculty input on recommended course sequencing

Reminders:
What Is an Area of Emphasis?

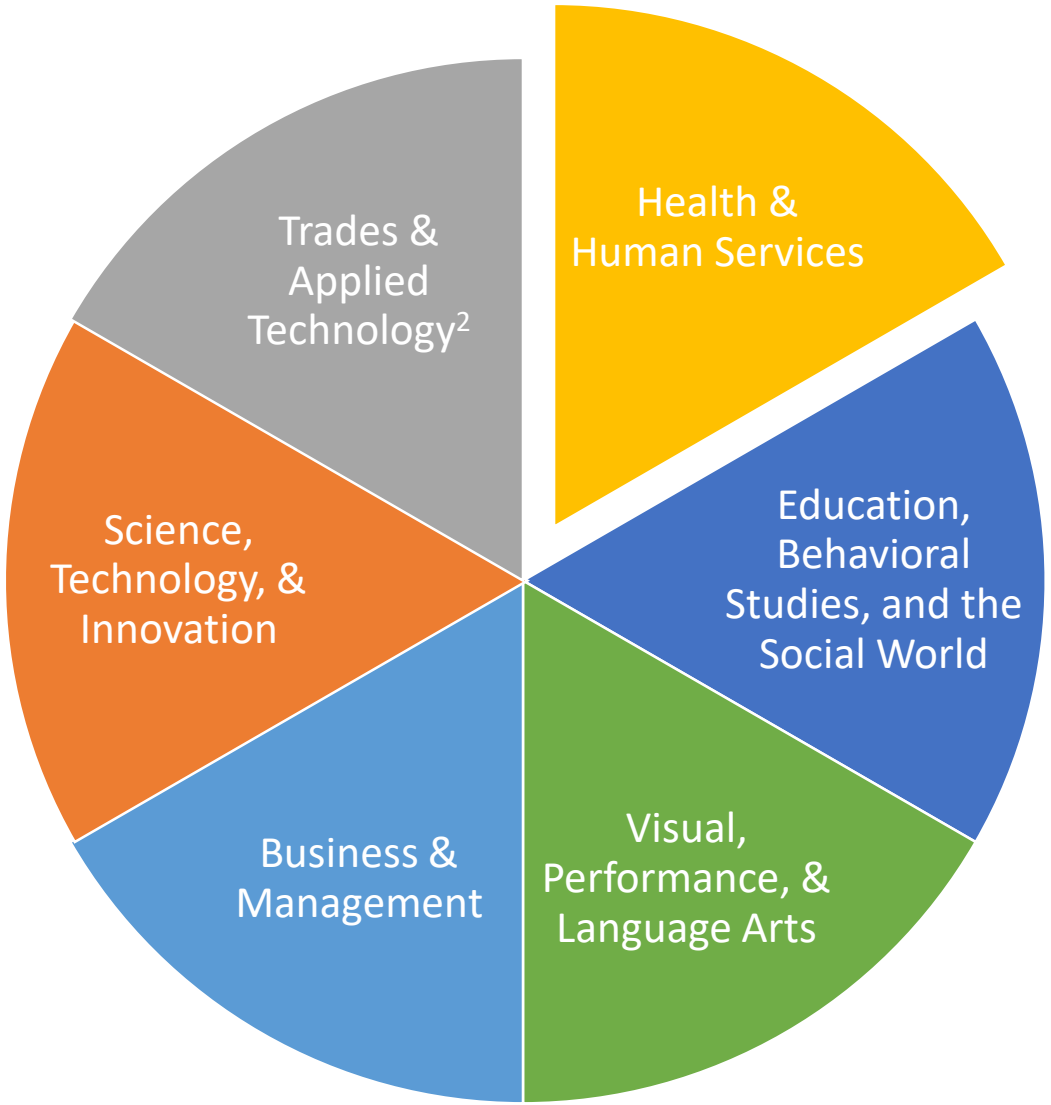
Areas of Emphasis/Metamajors may/can be:

- A cluster of programs based on principles
- A grouping that allows students to explore within similar areas
- Programs with similar math requirements
- Areas with similar employment areas
- Areas of study based on similar motivations
- A tool to help students meet their goals sooner and more directly

Areas of Emphasis are <u>not</u> an academic organization chart, or a collection of departments based on organizational structure, nor is their function to replace current organizational structures (e.g. Divisions/Schools).

In asking why Areas of Emphasis, consider reviewing the data at https://www.calpassplus.org/LaunchBoard/Student-Success-Metrics.aspx

Areas of Emphasis, Draft Proposal 2.1.2019



[1]Proposed elimination of "Trade": consider change to Applied Technology. (GP Meeting 1.18.2019)

What are Holland Types?

Realistic; Investigative; Artistic; Social; Enterprising; Conventional

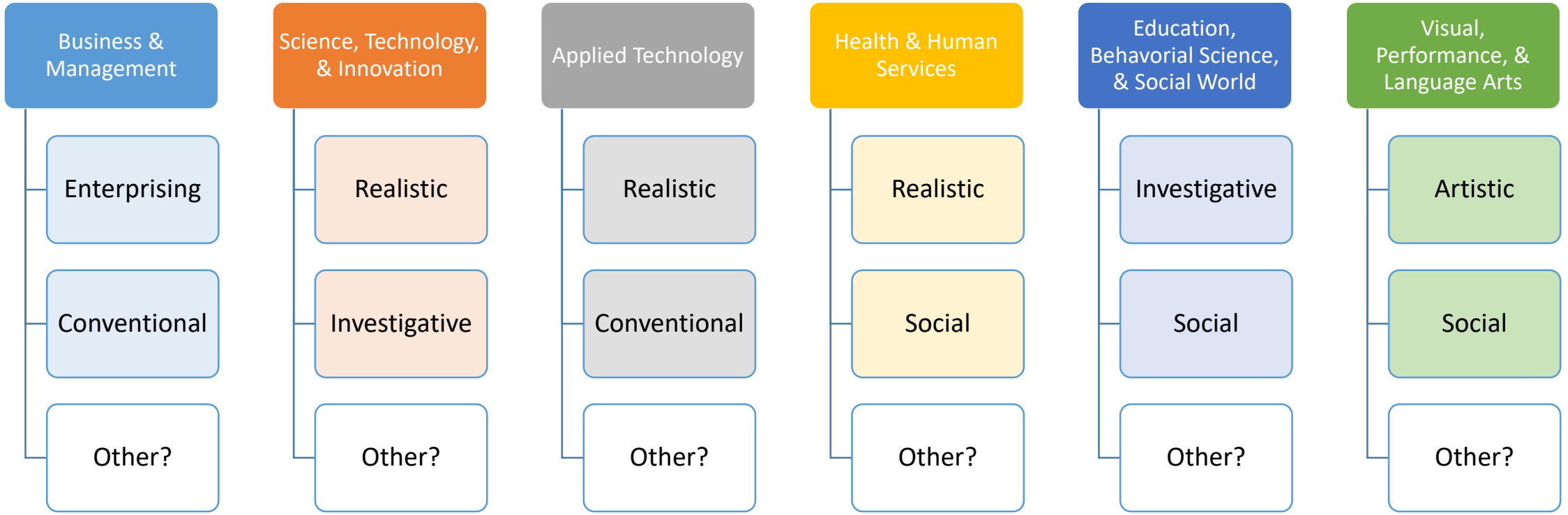
FROM CAREER COACH—

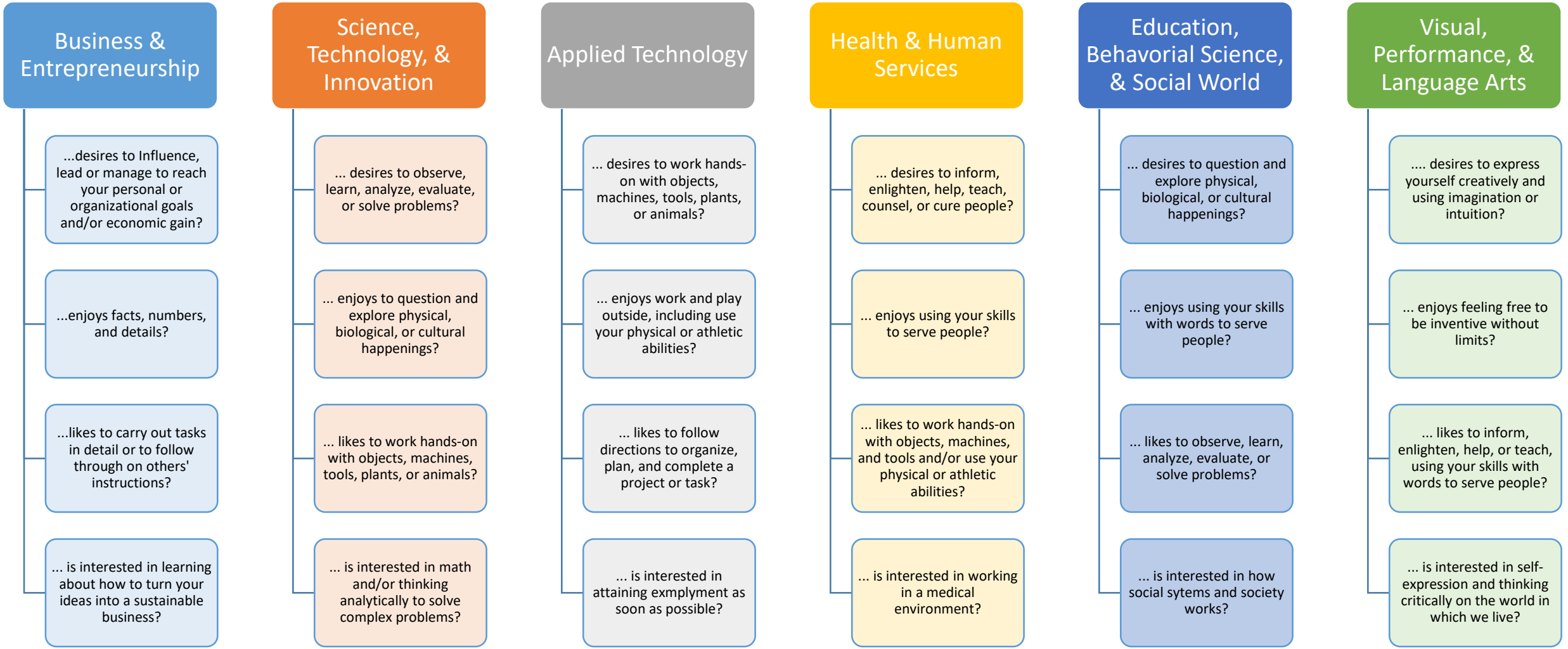
"Do you think you would like to…

- Work hands-on with objects, machines, tools, plants, or animals; work and play outside; use your physical or athletic abilities. (Realistic)
- Observe, learn, analyze, evaluate, or solve problems; question and explore physical, biological, or cultural happenings. (Investigative)
- Express yourself creatively; use imagination or intuition; feel free to be inventive without limits. (Artistic)
- Inform, enlighten, help, teach, counsel, or cure people; use your skills with words to serve people. (Social)
- Influence, lead or manage; reach your personal or organizational goals. (Enterprising)
- Work with facts, numbers, and details; follow directions to organize, plan, and complete a project or task. (Conventional)"

SOLANO COLLEGE GUIDED PATHWAYS

Areas of Emphasis & Holland Types




Business & Entrepreneurship
...desires to Influence, lead or manage to reach your personal or organizational goals and/or economic gain?
...enjoys facts, numbers, and details?
...likes to carry out tasks in detail or to follow through on others' instructions?
... is interested in learning about how to turn your ideas into a sustainable business?
Science, Technology, & Innovation
... desires to observe, learn, analyze, evaluate, or solve problems?
... enjoys to question and explore physical, biological, or cultural happenings?
... likes to work hands-on with objects, machines, tools, plants, or animals?
... is interested in math and/or thinking analytically to solve complex problems?
Applied Technology
... desires to work hands-on with objects, machines, tools, plants, or animals?
... enjoys work and play outside, including use your physical or athletic abilities?
... likes to follow directions to organize, plan, and complete a project or task?
... is interested in attaining exmplyment as soon as possible?
Health & Human Services
... desires to inform, enlighten, help, teach, counsel, or cure people?
... enjoys using your skills to serve people?
... likes to work hands-on with objects, machines, and tools and/or use your physical or athletic abilities?
... is interested in working in a medical environment?
Education, Behavorial Science, & Social World
... desires to question and explore physical, biological, or cultural happenings?
... enjoys using your skills with words to serve people?
... likes to observe, learn, analyze, evaluate, or solve problems?
... is interested in how social sytems and society works?
Visual, Performance, & Language Arts
.... desires to express yourself creatively and using imagination or intuition?
... enjoys feeling free to be inventive without limits?
... likes to inform, enlighten, help, or teach, using your skills with words to serve people?
... is interested in self-expression and thinking critically on the world in which we live?

Business & Entrepreneurship

- Account Clerk
- Accounting
- Administrative Assistant*
- Business
- Business Insurance: Property and Casualty
- Computer Applications Specialist
- Computer Programming
- Cosmetology
- Database Specialist
- Economics
- Insurance Specialist
- Management
- Marketing
- Medical Front Office Clerk*
- Medical Office and Coding Specialist*
- Microcomputer Applications
- Microsoft Office Master
- Microsoft Office Specialist
- Real Estate
- Retail Management
- Small Business Management
- Soft Skills for Technicians
- Web Developer
- Web Development & Administration
- Web Programmer

Science, Technology, & Innovation

- Anthropology*
- Astronomy
- Biology
- Biomanufacturing
- Biotechnology Laboratory Asst
- Chemistry
- Computer Forensics (Criminal Justice)
- Computer Programming
- Drafting & Design Technician
- Engineering
- General Science
- Geography*
- Horticulture & Plant Science
- Industrial Biotechnology
- Mathematics
- Mechatronics
- Microcomputer Applications
- Physics
- Survey & Civil Drafting Technician
- Water & Wastewater Technology

Trades& Applied Technology**

- Airframe & Powerplant Maintenance Technician
- Airframe Maintenance Technician
- Automotive Technician
- Automotive Transmissions and Transaxles
- Corrections *
- Cosmetology*
- Drafting & Design Technician*
- Electrical & Body Systems
- Emergency Medical Technician I*
- Fire Technology*
- Industrial Technician (Welding)
- Landscape Worker
- Law Enforcement*
- Liberal Studies for Education*
- Maintenance & Light Repair (Automotive)
- Mechatronics
- Powerplant Maintenance Technician
- Survey & Civil Drafting Technician*
- Technician (Welding)
- Water & Wastewater Technology*
- Welding Technician

Health & Human Services

- Administrative Assistant*
- Administration of Justice
- ASL-Interpreter Training (ASL)
- Associate Teacher (CDFS)
- Certified Nursing Assistant
- Corrections
- Criminal Justice
- Early Childhood Education (CDFS)
- Emergency Medical Technician I
- Fire Technology
- Fire Technology
- Fitness Professional
- Human Services
- Kinesiology
- Law Enforcement
- Medical Front Office Clerk*
- Medical Office and Coding Specialist*
- Nursing, Registered
- Nutrition & Dietetics
- Psychology*
- Social Justice
- Sports Medicine/Fitness Science
- Sports Medicine/Fitness Science
- Wellness & Self-Development

Education, Behavorial Studies, & the Social World

- Anthropology*
- Archaeology
- Art History*
- Associate Teacher (CDFS)
- Computer Forensics (Criminal Justice)
- Corrections
- Criminal Justice
- Cultural Anthropology
- Early Childhood Education (CDFS)
- Geography*
- History
- Law Enforcement
- Liberal Studies for Education
- Linguistics
- Political Science
- Psychology*
- Social Justice
- Social Sciences
- Sociology

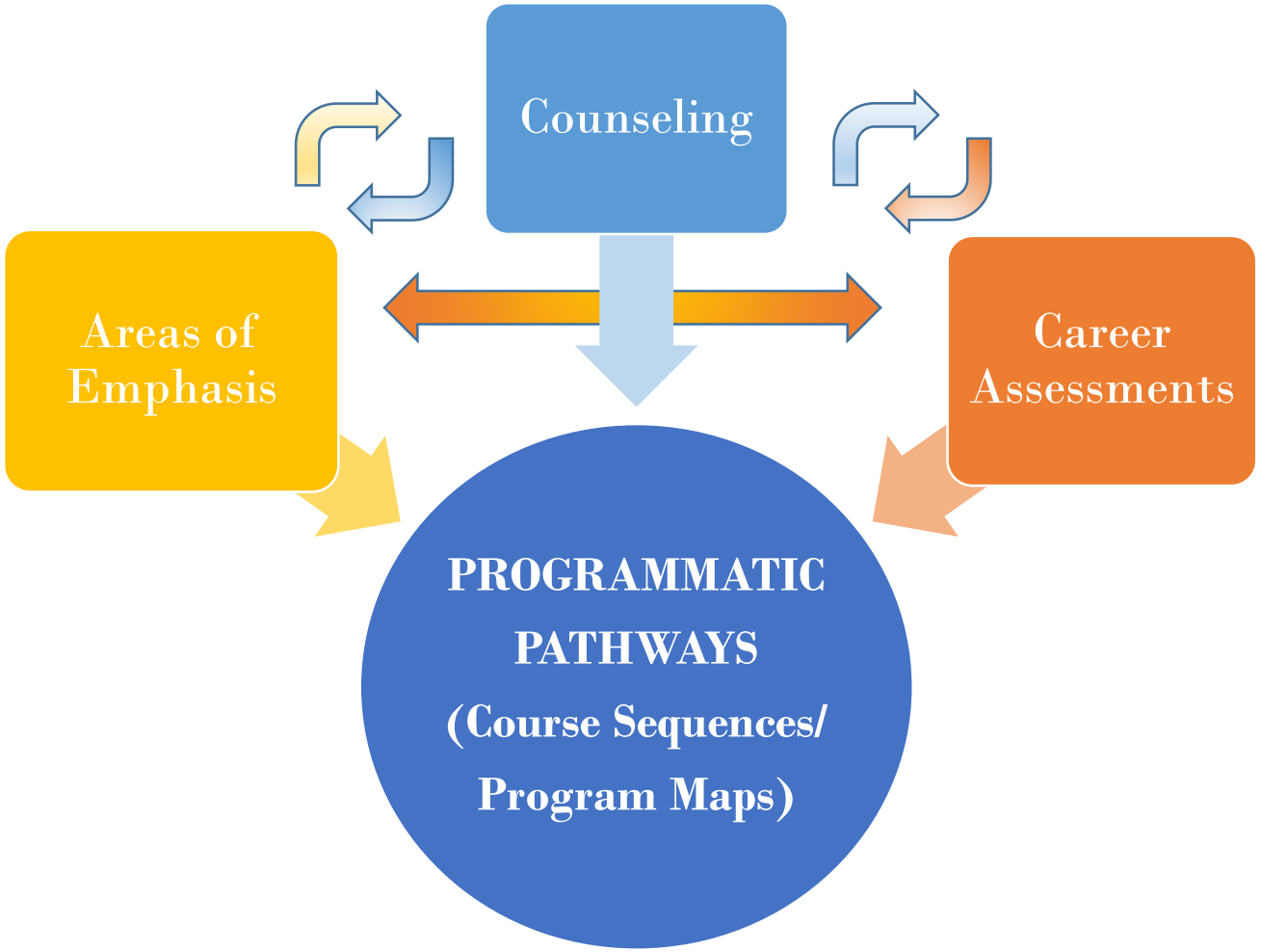
Visual, Performance, & Language Arts

- ASL-Interpreter Training (ASL)
- Art History*
- Graphic Design & Illustration
- Studio Arts
- English
- Sports Broadcasting
- Foreign Language
- Communication Studies
- Instrumental (Music)
- Spanish
- French
- Film & Television
- Journalism
- Music
- Photography
- Theater Arts
- Theater Arts—Technical
- Theory-Composition (Music)
- Vocal (Music)

SOLANO COLLEGE
GUIDED PATHWAYS

Multiple Access Points without the Confusion

- Career-focused
- Homogenized Language
- Discipline-driven
- Exploration, not Duplication



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GUIDED PATHWAYS

What might the student experience look like?

Science, Technology, & Innovation

Am I the kind of person who—

- … desires to observe, learn, analyze, evaluate, or solve problems?
- ... enjoys to question and explore physical, biological, or cultural happenings?
- ... likes to work hands-on with objects, machines, tools, plants, or animals?
- ... is interested in math and/or thinking analytically to solve complex problems?"

Science, Technology, & Innovation

- Anthropology*
- Astronomy
- Biology
- Biomanufacturing
- Biotechnology Laboratory Asst
- Chemistry
- Computer Forensics (Criminal Justice)
- Computer Programming
- Drafting & Design Technician
- Engineering
- General Science
- Geography*
- Horticulture & Plant Science
- Industrial Biotechnology
- Mathematics
- Mechatronics
- Microcomputer Applications
- Physics
- Survey & Civil Drafting Technician
- Water & Wastewater Technology

What is the name of the program and type of award?

Biology, Associate Degree for Transfer

To what types of careers and earning potential does this award lead?

Biological scientist ($83,660),

Life Scientist ($92,960),

Natural Science Manager ($138,190)

Post-secondary Biological Science Teacher ($105,190),

Secondary School Teacher ($77,980)

What is my time commitment?

Most professions in Biology require a bachelor of science or graduate degree.

Leads to numerous professional degrees, including MD, OD, DDS, & Dpharm.

Degrees in the field of biotechnology.

Is English and Math required? If so, which Math?

The student is able to use Guided Self-Placement tools based on the program requirements.

For example—

--Biology requires Math 020.

--The student may enroll in Math 020,

--or the student may enroll in a transfer-level course to prepare for Math 020,

--with or without its co-requisite.

Do I want to be a full-time student? Do I want to be part of a cohort program? What other opportunities are available to a student like me?

--First-Year Experience

--Puente/Umoja

--EOPS

--MESA

--Other?

What courses should I take?

--In the first term?

--In the first academic year?

--To complete my program?

And…<u>when</u> are these courses offered?

For example,--

The Course Sequence for Biology suggests the following sequence (assuming program-ready, FT student)

--CHEM 001 & 001L [5 units]

--MATH 020 [5 units]

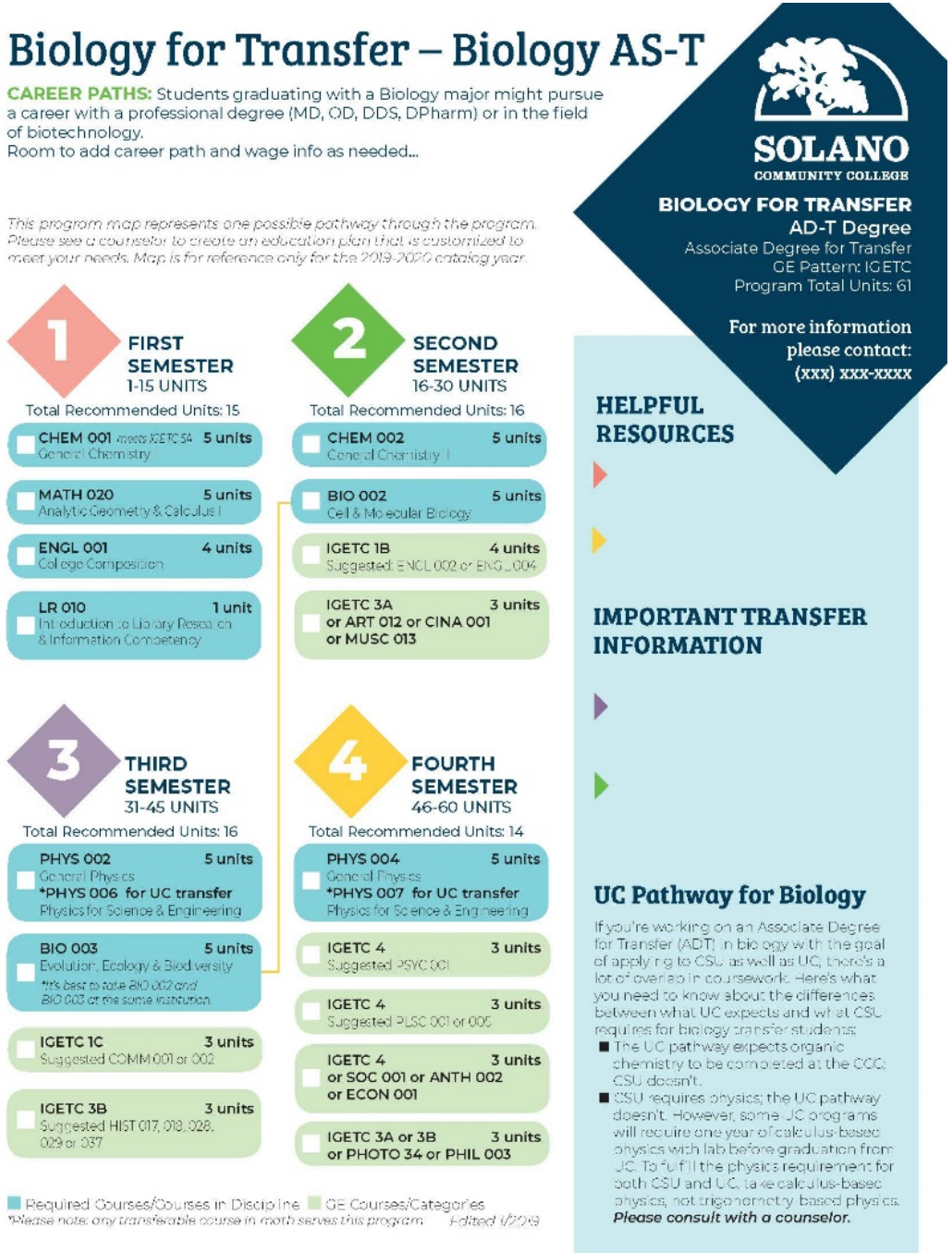
--ENGLI 001 [4 units]

--LR 010 [1 unit]

--BIO 101 (if FYE Cohort) [.5 units]

[15 or 15.5 units]

Sample Program Map (v.1.9.2019)



Biology for Transfer – Biology AS-T

CAREER PATHS: Students graduating with a Biology major might pursue a career with a professional degree (MD, OD, DDS, DPharm) or in the field of biotechnology.
Room to add career path and wage info as needed...

This program map represents one possible pathway through the program. Please see a counselor to create an education plan that is customized to meet your needs. Map is for reference only for the 2019-2020 catalog year.

SOLANO COMMUNITY COLLEGE

BIOLOGY FOR TRANSFER
AD-T Degree
Associate Degree for Transfer
GE Pattern: IGETC
Program Total Units: 61

For more information please contact:
(xxx) xxx-xxxx

1 FIRST SEMESTER
1-15 UNITS

Total Recommended Units: 15

- CHEM 001 *meets IGETC 5A* — 5 units — General Chemistry
- MATH 020 — 5 units — Analytic Geometry & Calculus I
- ENGL 001 — 4 units — College Composition
- LR 010 — 1 unit — Introduction to Library Research & Information Competency

2 SECOND SEMESTER
16-30 UNITS

Total Recommended Units: 16

- CHEM 002 — 5 units — General Chemistry I
- BIO 002 — 5 units — Cell & Molecular Biology
- IGETC 1B — 4 units — Suggested: ENGL 002 or ENGL 004
- IGETC 3A — 3 units — or ART 012 or CINA 001 or MUSC 013

3 THIRD SEMESTER
31-45 UNITS

Total Recommended Units: 16

- PHYS 002 — 5 units — General Physics — *PHYS 006 for UC transfer — Physics for Science & Engineering
- BIO 003 — 5 units — Evolution, Ecology & Biodiversity — *It's best to take BIO 002 and BIO 003 at the same institution.
- IGETC 1C — 3 units — Suggested COMM 001 or 002
- IGETC 3B — 3 units — Suggested HIST 017, 018, 028, 029 or 037

4 FOURTH SEMESTER
46-60 UNITS

Total Recommended Units: 14

- PHYS 004 — 5 units — General Physics — *PHYS 007 for UC transfer — Physics for Science & Engineering
- IGETC 4 — 3 units — Suggested PSYC 001
- IGETC 4 — 3 units — Suggested PLSC 001 or 005
- IGETC 4 — 3 units — or SOC 001 or ANTH 002 or ECON 001
- IGETC 3A or 3B — 3 units — or PHOTO 34 or PHIL 003

Required Courses/Courses in Discipline GE Courses/Categories

*Please note: any transferable course in math serves this program. Edited 1/2019

HELPFUL RESOURCES

IMPORTANT TRANSFER INFORMATION

UC Pathway for Biology

If you're working on an Associate Degree for Transfer (ADT) in biology with the goal of applying to CSU as well as UC, there's a lot of overlap in coursework. Here's what you need to know about the differences between what UC expects and what CSU requires for biology transfer students:

- The UC pathway expects organic chemistry to be completed at the CCC; CSU doesn't.
- CSU requires physics; the UC pathway doesn't. However, some UC programs will require one year of calculus-based physics with lab before graduation from UC. To fulfill the physics requirement for both CSU and UC, take calculus-based physics, not trigonometry based physics.

Please consult with a counselor.

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GUIDED PATHWAYS

INPUT: GO TO https://goo.gl/forms/MR4xsadOCMAXT7h42

Names/Titles of the Areas of Emphasis:

- ***Are the names appropriate to the Area of Emphasis?***
- ***Will the names "speak" to prospective students, parents of students, & the community?***
- ***What changes would you suggest?***

Organization/Placement of Awards/Programs:

- ***Are the programs you represent correctly places?***
- ***Are there additional Areas of Emphasis where your program belongs?***
- ***Are we missing programs?***

Feedback on the Questions for Each Area:

- ***Are there changes/additions you would suggest for the questions for each area?***
- ***Will the questions "speak" to prospective students, parents of students, & the community?***

Feedback on the "student experience":

- ***What needs to be changed and why?***
- ***What are we missing, and where should it be included?***

SOLANO COLLEGE
GUIDED PATHWAYS

THANK YOU!

Contacts:
LaNae Jaimez, Academic Senate President
David Williams, Vice President of Academic Affairs
Michael Wyly, Guided Pathways Coordinator