

2022-23

MATH

AS-T MATH

Pathways for Transfer

(CSUGE) NAS719 / (IGETC) NAS720

REQUIRED COURSES (19 - 20 semester units) UNITS

MAT-1A	Calculus I	4
MAT-1B	Calculus II	4
MAT-1C	Calculus III	4

Select TWO courses from the following with at least one course from LIST A 7 - 8

LIST A

MAT-2	Differential Equations	4
MAT-3	Linear Algebra	3

LIST B

PHY-4A	Mechanics	4
CSC/CIS-5	Programming Concepts & Methodology I: C++	4

This academic plan includes major coursework and recommended general education requirements for transfer. **Transfer requirements vary based on institution.** Please see a counselor to develop your personal educational plan and determine appropriate work/life/school balance.

TERM 1			
CSUSB/CPP		UCR	
COURSE	UNITS	COURSE	UNITS
ENG 1A	4	ENG 1A	4
MAT 1A	4	MAT 1A	4
ECO 4	3	ECO 4	3
GAM 2	3	GAM 2	3
GUI 47	3	GUI 47	3
Total Units	17	Total Units	17

TERM 2			
COURSE	UNITS	COURSE	UNITS
MAT 32 or PHI 11	3	ENG 1B	4
MAT 1B	4	MAT 1B	4
COM 1, 6 or 9	3	COM 1, 6 or 9	3
SOC 10	3	CHE 2A or PHY 4A	4
PHI 22	3	PHI 22	3
Total Units	16	Total Units	18

TERM 3			
COURSE	UNITS	COURSE	UNITS
MAT 1C	4	MAT 1C	4
MAT 3	3	CHE 1A or PHY 4B	4-5
PHY 4A	4	POL 1	3
ANT 1	3	ANT 1	3
POL 1	3	SOC 10	3
Total Units	17	Total Units	17-18

TERM 4			
COURSE	UNITS	COURSE	UNITS
MAT 2	4	MAT 2	4
PHY 4B	4	CHE 1B or PHY 4C	4-5
HIS 6,7, 14,31 or 34	3	HIS 1 or 2	3
CSC/CIS 5	4	CSC/CIS 5	4
Total Units	15	Total Units	15-16

✓ First Term To-Do List	
	Submit official high school transcripts and AP/IB/CLEP exam scores
	Visit Engagement Center (ST 108)
	Meet with a counselor to personalize your EduNav plan and to determine if you have already met the IGETC foreign language requirement through high school coursework
	Register for ILA-800 each term to receive FREE tutoring

✓ Second Term To-Do List	
	Visit the Counseling Center (2nd floor of CSS)
	Meet with a Mustang Mentor
	Get involved in ASNC or other student organizations
	Look for internship, research or volunteer opportunities in your field (s) of interest

✓ Third Term To-Do List	
	Meet with a counselor to verify your transfer status
	Attend Transfer Fair , transfer workshops and meet with university reps
	Submit transfer applications (ask about UC TAG)
	Complete FAFSA before march 2nd (include all transfer institutions that you applied to)

✓ Fourth Term To-Do List	
	Submit Degree Applications via WebAdvisor
	Complete transfer application updates
	Finish strong and order final transcripts for your transfer institution along with CSUGE or IGETC certification

A **MATH** degree provide students with a foundation from which to pursue a career in mathematics, statistics, actuarial science, and education.

WHERE CAN I WORK?

- ◆ Chemical & Pharmaceutical Co.
- ◆ City, State & Federal Government
- ◆ Computer & Electronic Manufacturer
- ◆ Computer Service Firm
- ◆ Consulting Firm
- ◆ Education
- ◆ Engineering Firm
- ◆ Financial & Insurance Companies
- ◆ International Government
- ◆ Healthcare Industry
- ◆ Regulatory Agencies
- ◆ Telecommunication Industry

HOW DO I GET STARTED?

- ⇒ Visit the **Counseling Center** to learn about opportunities in the field and help determining if it is a good fit for your preferred values, strengths, skills, and interests. SSV 2nd floor.
- ⇒ Attend annual **TRANSFER FAIR** and **TRANSFER CENTER WORKSHOPS** to determine which university is the best fit for you as well as application requirements and transfer process.
- ⇒ Supplement curriculum with courses in statistics, business, economics, computers.
- ⇒ Learn how to use statistical software and various computer programming languages.
- ⇒ Build **RESEARCH SKILLS** and **PROBLEM SOLVING** skills through coursework and research with professors.
- ⇒ **JOB SHADOW** and **NETWORK WITH PROFESSIONALS** in positions you wish to obtain.
- ⇒ Participate in campus clubs to gain **TEAMWORK** and **LEADERSHIP SKILLS**.
- ⇒ Practice interpersonal, small group and public speaking **COMMUNICATION SKILLS**.
- ⇒ Join **PROFESSIONAL ASSOCIATION** such as the America Mathematical Society and the Mathematical Association of America to network and maintain current knowledge of opportunities in the field.

WHAT CAN I DO WITH THIS ASSOCIATE DEGREE?

Position Title	CA Annual Openings	CA Median Salary	In Riverside County Wages will Support
Assessor	400	\$83,220	1 adult, 3 children
Computer Operators	320	\$97,600	1 adult, 3 children
Insurance Appraiser	No Data	\$65,900	1 adult, 2 children
Loan Interviewer/Clerk	2,700	\$45,390	1 adult
Teachers Assistant	17,710	\$35,380	1 adult
Tutor	22,220	\$39,250	1 adult

WHAT SKILLS DO I NEED?

- ⇒ **Mathematics** — using mathematics to solve problems.
- ⇒ **Complex Problem Solving** — identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.
- ⇒ **Critical Thinking** — using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
- ⇒ **Reading Comprehension** — understanding written sentences and paragraphs in work related documents.
- ⇒ **Active Learning** — understanding the implications of new information for both current and future problem-solving and decision-making.

WHAT CAN I DO WITH MORE EDUCATION AND TRAINING?

Position Title	CA Annual Openings	CA Median Salary	In Riverside County Wages will Support
Actuary	140	\$111,680	2 adults, 4 children
Computer & Information Research Scientist	470	\$134,650	2 adults, 6 children
Computer System Engineer	2,940	\$97,600	2 adults, 3 children
Cost Estimator	3,280	\$71,690	1 adult, 2 children
Economist	130	\$109,020	2 adults, 4 children
High School Math Teacher	8,260	\$87,120	1 adult, 3 children
Loan Officer	3,770	\$61,640	1 adult, 1 child
Mathematical Technician	No data	\$105,980	2 adults, 3 children
Mathematician	300	\$104,680	2 adults, 3 children
Statistician	510	\$107,360	2 adults, 3 children
University/College Professor	5,300	\$115,650	2 adults, 4 children

ESTIMATED COST TO OBTAIN ASSOCIATE DEGREE

60 Units x \$46 per unit (CA residents) = \$2,760 Health, ASNC, Parking Fees (x 4 terms) = \$360
 Books & Supplies = \$3,944 **Total Cost = \$7,064**

PREFERRED WORK STYLES INCLUDE:

- ⇒ **Analytical Thinking** — analyzing information and using logic to address work-related issues and problems.
- ⇒ **Attention to Detail** — being careful about detail and thorough in completing work tasks.
- ⇒ **Innovation** — creativity and alternative thinking to develop new ideas for and answers to work-related problems.
- ⇒ **Achievement/Effort** — establishing and maintaining personally challenging achievement goals and exerting effort toward mastering tasks.
- ⇒ **Integrity** — being honest and ethical.

For more information about careers, education and training requirements, salary data, and job outlooks visit www.onetonline.org, www.bls.gov or www.labormarketinfo.edd.ca.gov/OccGuides.