

### 2020-21

### 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
<b>Total Units</b>	<b>17</b>	<b>Total Units</b>	<b>17</b>

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
<b>Total Units</b>	<b>16</b>	<b>Total Units</b>	<b>18</b>

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
<b>Total Units</b>	<b>17</b>	<b>Total Units</b>	<b>17-18</b>

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
<b>Total Units</b>	<b>15</b>	<b>Total Units</b>	<b>15-16</b>

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

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

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

✓ Fourth Term To-Do List	
	Submit Degree Applications via <a href="#">WebAdvisor</a>
	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 **CAREER 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. CSS 2<sup>nd</sup> 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
<a href="#">Assessor</a>	400	\$83,220	1 adult, 3 children
<a href="#">Computer Operators</a>	320	\$97,600	1 adult, 3 children
<a href="#">Insurance Appraiser</a>	No Data	\$65,900	1 adult, 2 children
<a href="#">Loan Interviewer/Clerk</a>	2,700	\$45,390	1 adult
<a href="#">Teachers Assistant</a>	17,710	\$35,380	1 adult
<a href="#">Tutor</a>	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
<a href="#">Actuary</a>	140	\$111,680	2 adults, 4 children
<a href="#">Computer &amp; Information Research Scientist</a>	470	\$134,650	2 adults, 6 children
<a href="#">Computer System Engineer</a>	2,940	\$97,600	2 adults, 3 children
<a href="#">Cost Estimator</a>	3,280	\$71,690	1 adult, 2 children
<a href="#">Economist</a>	130	\$109,020	2 adults, 4 children
<a href="#">High School Math Teacher</a>	8,260	\$87,120	1 adult, 3 children
<a href="#">Loan Officer</a>	3,770	\$61,640	1 adult, 1 child
<a href="#">Mathematical Technician</a>	No data	\$105,980	2 adults, 3 children
<a href="#">Mathematician</a>	300	\$104,680	2 adults, 3 children
<a href="#">Statistician</a>	510	\$107,360	2 adults, 3 children
<a href="#">University/College Professor</a>	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](http://www.onetonline.org), [www.bls.gov](http://www.bls.gov) or [www.labormarketinfo.edd.ca.gov/OccGuides](http://www.labormarketinfo.edd.ca.gov/OccGuides).