

# A.A. Liberal Arts Sciences: Math and Sciences 24-25



## ABOUT THIS MAJOR

It is designed for students who wish to explore different disciplines (subject areas) before deciding on a definite major program prior to transferring to a four-year university, or for students who may not be planning to transfer but wish

to earn a degree in a particular area of study that interests them. Students planning to transfer to a four-year university are cautioned that this degree may not meet all the lower division requirements for transfer into a particular major; however, through careful educational planning with a counselor, this degree would offer a solid foundation in the transfer process.

**Residency:** Minimum of 12 units completed at AVC with a minimum of 9 of those units completed from the certificate/major. (credit earned by examination will not be included in these 12 units) Title 5, Section 54000: <http://ccr.oal.ca.gov>.

### TO EARN A DEGREE A STUDENT MUST COMPLETE THE FOLLOWING:

- [1] Completion of 60-semester units
- [2] Completion of General Education Requirements
- [3] Minimum grade point average of 2.0
- [4] A C or better in all courses required for the major

## A.A. Liberal Arts Science: Math & Sciences [Total Units 18]

Complete 18 units from the following courses. At least 6 units from Math & 6 units from Sciences. \*The remaining 6 units may come from either Math or Science list.

MATH- complete at least (6-12 units) from the following:	
MATH110 - Mathematics for Liberal Arts Students	3
MATH115 - Statistics	4
MATH116 - Introduction to Statistics Using R	4
MATH124 - Finite Math	4
MATH128 - College Algebra for Liberal Arts	3
MATH131 - College Algebra for STEM	4
MATH140 - Precalculus	4
MATH148 - Calculus for Business and Economics	4
MATH150 - Calculus and Analytic Geometry	5
MATH160 - Calculus and Analytic Geometry	4
MATH220 - Linear Algebra	4
MATH230 - Introduction to Ordinary Differential Equations	4
MATH250 - Calculus and Analytic Geometry	4
SCIENCES- complete at least (6-12 units) from the following:	
ANTH101 - Introduction to Biological Anthropology	3
ANTH101L - Biological Anthropology Lab	1
ASTR101 - Astronomy	3
ASTR101L - Astronomy Laboratory	1
BIOL101 - General Biology	3
BIOL101L - General Biology Lab	1
BIOL103 - Introduction to Botany	4
BIOL110 - General Molecular Cell Biology	5
BIOL120 - General Organismal, Ecological and Evolutionary Biology	5
BIOL201 - General Human Anatomy	4
BIOL202 - General Human Physiology	4
BIOL204 - General Microbiology	5
CHEM101 - Introductory Chemistry	5
CHEM102 - Introductory Chemistry (Organic & Biochemistry)	4
CHEM110 - General Chemistry	5
CHEM120 - General Chemistry	5
ERSC101 - Introduction to Earth Science	4
GEOG101 - Physical Geography: Earth's Surface Landscapes	3
GEOG101L - Physical Geography Lab: Earth's Surface Landscapes	1
GEOG102 - Physical Geography: Earth's Weather & Climate	3
GEOG102L - Physical Geography Lab: Earth's Weather & Climate	1
GEOL101 - Physical Geology	3
GEOL101L - Physical Geology Lab	1
GEOL102 - Historical Geology	3
GEOL102L - Historical Geology Laboratory	1
PHYS101 - Introductory Physics	4
PHYS102 - Introductory Physics	4
PHYS110 - General Physics	4
PHYS120 - General Physics	4
PHYS211 - General Physics	5
PSCI101 - Physical Science	4

## RECOMMENDED PATHWAY Liberal Arts Science: Math & Sciences

The Recommended Plan of Study is determined by the discipline faculty. All Program Electives for the Major and General Education Courses, Areas A-F, are recommended only. Except for ENGL 101, you can make other selections for this area if you choose (See back page for options).

- [\*] = Courses will fulfill the completion requirements for Major & Gen Ed I
- [#] recommended courses may select other options.
- Electives are courses that count toward your credits for graduation, but not specific to degree of study
- Take classes in Summer or Intersession if needed to complete your degree in a timely manner
- Fall/Spring: Max 19 units, 12-15 units Recommended.

TERM 1	
Course	Units
LAMS MAJOR COURSE: (Math Course)	3-5
AVC GEN-ED AREA D1: ENGL 101	3
AVC GEN-ED AREA E: #HD 101	3
ELECTIVE	3
ELECTIVE	3
<b>Total Units</b>	<b>12.5-17</b>

TERM 2	
Course	Units
LAMS MAJOR COURSE: (Math course)	3-5
LAMS MAJOR COURSE: (Science Course)	1-5
AVC GEN-ED AREA D2	3
AVC GEN-ED AREA B	3
ELECTIVE	3
<b>Total Units</b>	<b>13-22</b>

TERM 3	
Course	Units
LAMS MAJOR COURSE: (Math Course)	3-5
LAMS MAJOR COURSE: (Science Course)	1-5
AVC GEN-ED AREA A	1-5
AVC GEN-ED AREA C	1-5
ELECTIVE	3
<b>Total Units</b>	<b>9-23</b>

TERM 4	
Course	Units
LAMS MAJOR COURSE: (Science Course)	1-5
AVC GEN ED- AREA F	3
ELECTIVE	3
ELECTIVE	3
ELECTIVE	3
<b>Total Units</b>	<b>13-17</b>

COUNSELING NOTE SECTION		
<p><b>Prerequisite:</b> If a course is listed as a prerequisite for another course, that prerequisite course must be completed with a satisfactory grade to enroll in the next course. A satisfactory grade is a grade of "A," "B," "C" or "P".</p> <p>Students who enroll in classes for which they do not meet the prerequisites will be involuntarily dropped. Students will be notified of this involuntary drop. Title 5, Section 55200(d)</p>		
INFORMATION and RESOURCES		
Tutoring Assistance	Career Center	AVC Student Health Services
Transfer Center	Office of Students with Disabilities	Palmdale Center
Basic Needs	Financial Aid	Counseling Division

The State requires ALL STUDENTS to have a Comprehensive Education Plan. You MUST make a counseling appointment as soon as enrollment is established to receive your plan. Stop by the Counseling Center or call 661-722-6300 x 6338 to schedule an appointment.

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## 2024-2025 AVC General Education Requirements

Advising Form Effective Fall 2024 - Summer 2025

GE AREA	COMPLETED	IN PROGRESS	NEED	<p>The requirements for an AA or AS degree include the following:</p> <ol style="list-style-type: none"> <li>A minimum of <b>60 semester units</b>; with at least <b>12 semester units completed in residence at AVC</b> for an AA/AS degree (credit earned by examination will not be included in these 12 units); <b>maximum of 12 pass/no-pass credit units</b> can be accepted towards an AA/AS degree.</li> <li>Refer to each individual program for major requirements. <b>All major courses</b> as specified in the AVC catalog <b>must be completed with a grade of "C" or better</b>.</li> <li>An overall grade point average (GPA) of <b>2.0 ("C" average) is required</b>.</li> </ol> <p><b>Double counting:</b> While a course may satisfy more than one general education requirement, it may not be counted more than once for these purposes. A course may be used to satisfy both a general education requirement and a major or area of emphasis requirement.</p> <p><b>Prerequisite:</b> If a course is listed as a prerequisite for another course, that prerequisite course must be completed with a satisfactory grade in order to enroll in the next course. A satisfactory grade is a grade of "A," "B," "C" or "P". Students who enroll in classes for which they do not meet the prerequisites will be involuntarily dropped. Students will be notified of this involuntary drop. <i>Title 5, Section 55200(d)</i></p> <p><b>At least 3 units from each of the following areas below: A, B, C, D1, D2, E, and F. Minimum Total GE Units Required 21</b></p> <p style="text-align: center;">Legend: ( ) = Newly Approved, Effective Fall 2024</p>
<b>AREA A: NATURAL SCIENCES-Select at least 3 units</b>				
A			<p>ANTH 101, (101H); ASTR 101, (101H); BIOL 100, 101*#, 101L*#, 102, 103, 104, (104H), 110, 120, 201, 202, 204, 205; CHEM 101, 102, 110, 120, 210, 220; ELTE 101; ERSC 101; GEOG 101, 102; GEOL 101, (101H), 102; PHYS 101, 102, 110, 120, 211; PSCI 101 *#BIOL 101 &amp; 101L must be taken concurrently</p>	
<b>AREA B: SOCIAL &amp; BEHAVIORAL SCIENCES-Select at least 3 units</b>				
B			<p>AJ 201, 204, 206; ANTH 102, 103, 110, 112, (112H), 140; BUS 101, 212; CFE 102, 103; COMM 217; DFST 105, 106, 110; ECON 100, 101, (101H), 102, (102H), 110; GEOG 105, 106, 110; HIST 101, 102, 104, 105, 107, (107H), 108, (108H), 110, (110H), 111, (111H), 113, 114, 116, 118, 119; POLS 101, (101H), 103, 200, 201, 202, 203; PSY 101, (101H) 200, 201, 212, 230, 232, 233, 234, 235, 236; SOC 101, (101H), 105, 110, 111, 112, 115, 116, 120, 200</p>	
<b>AREA C: HUMANITIES-Select at least 3 units</b>				
C			<p>ART 100, 101, (101H), 102, 103, 104, 106, 110, 113, 120, 132, 135, 136, 137, 140, 145, 150, 163, 170, 210, 213; CHIN 101, 102, 201, 202; COMM 112, 114, 214, 217, 219; DA 101; DFST 101, 102, 105, 106, 201, 202; ENGL 102, 111, 112, 221, 222, 225, 227, 230, 231, 235, 242, 253, (253H), 256, 257, 259, 265, 279; FREN 101, 102, 201, 202, 203; FTV 101, 103, 107, 108, 201, 203, 241, 251, 261; GER 101, 102, 201, 202; HIST 101, 102, 104, 105, 107, (107H), 108, (108H), 110, (110H), 111, (111H), 113, 115, 118, 119; LATN 101, 102, 201; MUS 101, (101H), 105, (106), (110), 111, 121, 131, 132, 151, 153, 185, 231, 232, 251A, 251B, 253A, 253B; MUSC 102, 103, 107, 108, 109, (109); NF 150; PHIL 105, (105H), 106, 108, 109 (130), (140); PHOT 107; PHTC 101, 150, 201; SPAN 101, 110SS, 102, 201, 202, 210SS, 220SS; THA 101, (101H), 102, 103, 110, 115A, 115B, 116A, 116B, 117A, 117B, 118A, 118B, 121A, 121B, 130, 133, 225, 239, (239H)</p>	
<b>AREA D: LANGUAGE AND RATIONALITY</b>				
Select 3 units from (1) and 3 units from (2). <u>Grade of "C" or better required in Area D1</u>				
D1			<p>D1 Academic Composition: ENGL 101, (101H)</p>	
D2			<p>D2 Communication and Analytical Thinking: BUS 113; CA 103; CS 120, 121, 222, 223; COMM 101, (101H), 107, 109, 112, 114, 115, 201, 217, 219; ENGL 102, (102H), 103, (103H); GEOG 201, 205; MATH 110, 115, (115H), 116, 120, 124, 128, 135, 140, 148, 150, (150H), 160, 220, 230, 250; PHIL 101, 106, 110, 201, (210)</p>	
<b>AREA E: ADDITIONAL BREADTH</b>				
Select 3 units from Areas A, B, C, D2, or E *Courses must be taken from a discipline not previously selected				
E			<p>DA 111; HD 100, 101, 102, 103, 105; HE 101, 120, 201; KINT 100; LIB 107, 110; NF 100, 102, 103, 110 Any DA activity course(s) from DA 102-205, <u>except</u> DA 107A-C, 108, 109, and 111 Any Kinesiology Fitness (KINF) activity course, Intercollegiate Athletics (IATH) activity course, or <b>up to 4 units for military experience</b></p>	
<b>AREA F: DIVERSITY STUDIES-Select 3 units</b>				
F			<p>ANTH 102, 112, (112H); BUS 212; CFE 116; COMM 114, 217, 219; DFST 105, 106; ECON 110; ENGL 250, 253, (253H), 256, 257, 259; ETHN (110), (111), (112), (113), 257EN; FTV 201, 203; HE 201; HIST 110, (110H), 111, (111H), 113; MUSC 107, 108; POLS 202; SOC 105, 110, 116; THA 239, (239H)</p>	