

BARROW ARTS AND SCIENCES ACADEMY

Program of Study

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	9 th Literature 9 th Literature Honors	Multicultural Literature Multicultural Lit Honors	American Lit American Lit Honors	Advanced Composition AP English Language DE English Course
Mathematics	Algebra 1 Algebra 1 Honors Geometry Honors	Geometry Geometry Honors Algebra 2 Honors	Algebra 2 Pre-Calculus Honors Dual Enrollment	Statistical Reasoning AP Calculus AP Statistics DE Math Course
Science	Physical Science Biology Honors	Biology Chemistry Honors	Chemistry Environmental Science Physics Honors	Chemistry Environmental Science AP or DE Science Course
Social Studies	World Geography AP Human Geography	World History AP World History	US History AP US History	Economics/Government AP or DE Economics <u>and</u> Government
Graduation Requirements	Health/PE	Language 1	Language 2	Internship

AP = Advanced Placement

DE = Dual Enrollment

MAGNET PROGRAMS & MAJORS				
ART & DESIGN				
2-D Visual Art	Visual Art I/II	Visual Art III/IV	Drawing & Painting I/II	Drawing & Painting III/IV
3-D Visual Art	Visual Art I/II	Visual Art III/IV	Sculpture I/II	Sculpture III/IV
Additional Opportunities	Photography I and II AP Studio Art/2D Design Portfolio AP Studio Art/3D Design Portfolio Online Dual Enrollment via SCAD			
BIOMEDICAL SCIENCE				
Core <i>(All Students)</i>	Intro to Healthcare Science	Essentials of Healthcare	Allied Health & Medicine	Biotechnology Innovation
Biotechnology Research	Intro to Healthcare Science	Essentials of Biotechnology	Applications of Biotechnology	Dual Enrollment or Internship
Sports Medicine	Intro to Healthcare Science	Sports Medicine	Exercise Science & Physiology	Dual Enrollment or Internship
Veterinary Science	Basic Agricultural Science	Animal Science & Biotechnology	Veterinary Science	Dual Enrollment or Internship
Additional Opportunities	Certified Nursing Assistant Cohort at Sims Academy Medical Administrative Assistant Cohort at Sims Academy			
HOSPITALITY & CULINARY ARTS				
Culinary Arts	Intro to Culinary Arts	Culinary Arts I	Culinary Arts II	Dual Enrollment or Internship
Marketing & Hospitality	Marketing Principles	Hospitality, Recreation, & Tourism Essentials	Hospitality, Recreation, & Tourism Management	Dual Enrollment or Internship
Sustainable Agriculture	Basic Agricultural Science	Environmental Science & Stewardship	Sustainable Agriculture	Dual Enrollment or Internship
Additional Opportunities	Entrepreneurship Culinary Arts Cohort at Sims Academy			
MEDIA ARTS				
Graphic Design	Intro to Graphic Design	Graphic Design	Advanced Graphic Design	Dual Enrollment or Internship
Film	Audio-Video Tech & Film I	Audio-Video Tech & Film II	Audio-Video Tech & Film III	Dual Enrollment or Internship

PERFORMING ARTS				
Band	Intermediate Band - Advanced Band - Mastery Band			
Chorus	Intermediate Chorus - Advanced Chorus - Mastery Chorus			
Dance	Dance I/II	Dance III/IV	Advanced Repertoire Dance I/II	Performance Ensemble I/II
Drama	Drama I/II	Drama III/IV	Acting I/II	Advanced Drama I/II
Music Technology	Beginning Music Technology	Intermediate Music Technology	Advanced Music Technology	Mastery Music Technology
Additional Opportunities	Musical or Technical Theatre Guitar AP Music Theory			
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (STEM)				
Core <i>(All Students)</i>	Fundamentals of Engineering	Engineering Concepts	Engineering Applications	Research/Capstone
Architecture	Intro to Drafting & Design	Architectural Drawing & Design I	Architectural Drawing & Design II	Dual Enrollment or Internship
Computer Science	Intro to Digital Technology	AP Computer Science Principles	AP Computer Science A	Dual Enrollment or Internship
Cybersecurity	Intro to Digital Technology	Intro to Cybersecurity	Advanced Cybersecurity	Dual Enrollment or Internship
Game Design & Development	Intro to Digital Technology	AP Computer Science Principles	Game Design: Animation & Simulation	Dual Enrollment or Internship
Robotics & Mechatronics	Intro to Digital Technology	Intro to Mechatronics	AC Theory, Motors, and Hydraulics	Semiconductors, Mechanical Systems, and Piping
Additional Opportunities	Computer Networking Cohort at Sims Academy			

EARLY COLLEGE OPPORTUNITIES @ SIMS ACADEMY	
Language Arts	ENGL 1101 - Composition & Rhetoric ENGL 1102 - Literature & Composition ENGL 2130 - American Literature
Math	MATH 1111 - College Algebra MATH 1113 - Precalculus
Science	BIOL 1111/K - Biology I with Lab BIOL 1112/K - Biology II with Lab
Social Studies	HIST 1111 - World History HIST 1112 - World History II HIST 2111 - US History HIST 2112 - US History II ECON 2105 - Macroeconomics POLS 1101 - American Government PSYC 1101 - Psychology SOCI 1101 - Sociology SPCH 1101 - Public Speaking
Career Cohorts	Automotive Technology Certified Nurse Aide Computer Networking Criminal Justice Culinary Arts Mechatronics Medical Administrative Assistant Welding