

Name _			
Learner ID			
School/Co	laga/University		



## Science, Technology, Engineering and Mathematics

## Career Cluster Plan of Study for ▶ Learners ▶ Parents ▶ Counselors ▶ Teachers/Faculty

This Career Cluster Plan of Study (based on the Science, Technology, Engineering and Mathematics Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. \*This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

EDUCATION		English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Science, Technology, Engineering and Mathematics	SAMPLE Occupations Relating to This Career Cluster
	Interes		ed and Plan of Study Ir			•		
SECONDARY	9	English/ Language Arts I	Algebra I or Geometry	Biology	State History Civics	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences.	Continue courses pertinent to the pathway selected.  Information Technology Applications: Students will use technology tools to manage personal schedules and contact information, create memos and notes, prepare simple reports and other business communications, manage computer operations and file storage, and use electronic mail, Internet applications and GIS to	<ul> <li>Aerospace Engineer</li> <li>Agricultural Engineer</li> <li>Analytical Chemist</li> <li>Anthropologist</li> <li>Architectural Engineer</li> <li>Astrophysicist</li> <li>Biomedical Engineer</li> <li>CAD Technician</li> <li>Civil Engineer</li> <li>Computer Programmer</li> </ul>
	10	English/ Language Arts II	Geometry or Algebra II	Chemistry	U.S. History			
	11	English/ Language Arts III	Trigonometry Pre-Calculus or Statistics	Physics	World History World Geography			
	College	ollege Placement Assessments-Academic/Career Advisement Provided					communicate, search for and access	► Ecologist
	12	English/ Language Arts IV	Trigonometry or Pre-Calculus/ Calculus or AP Calculus or Math Analysis	Dependent on chosen pathway	Economics Entrepreneurship		information. Students will develop skills related to word processing, database management and spreadsheet applications.	<ul> <li>▶ Geologist</li> <li>▶ Geothermal Engineer</li> <li>▶ Math Teacher</li> <li>▶ Mathematician</li> <li>▶ Metallurgist</li> <li>▶ Statistician</li> </ul>
	Articula	ulation/Dual Credit Transcripted-Postsecondary courses may be taken/moved to the second				lary level for articulation/dual credit purposes.		► Survey Technician
POSTSECONDARY	Year 13	English Composition English Literature	•	Chemistry Physics	Psychology Global Issues	•	Continue courses pertinent to the pathway selected.	► Zoologist
	Year 14	Professional and	Introduction to Differential Equations Calculus III Statistics	Dependent on chosen pathway	American History Sociology Ethics and Legal Issues			
	Year 15	Continue courses in the area of specialization.			iliciade.			
	Year 16							

