University M	ission						
		Our principal mission at Lak high-quality, academically ri potential and sets students and global communities by	gorous programs i on paths to reward	n an engaged, persor ling careers and prod	nal and supportive er uctive, satisfying lives	nvironment. This co s. We also serve th	mbination nurtures
College Miss Statement	ion	The mission of the College of professionals in their respect supportive environment. Fact scholarship and professional graduates for advanced study to the major programs, the office science, mathematics, and selected scientific discipline	ctive fields. The Co culty members enhal development; and dy and/or careers i College provides c	ollege provides rigoron nance student succes d act as role models in disciplines crucial t ourses for all Univers	us academic programs and the future of the in life-long learning a the progress of our ity students that serv	ns in an engaged, p ne College through nd community serv nation in the 21st (e the national need	ersonal and their teaching, ice. We prepare Century. In addition for literacy in
	College GOALS:	1. Develop skills in analysis, critical thinking, problem solving, decision-making, and communication.	careers using	3. Prepare students for graduate schools and professional schools.	4. Provide hands- on experiences with modern instruments and equipment.	5. Provide highly skilled professors who are also respected scholars.	6. Provide unique learning opportunities.
School of Ph Science Miss	•	The School prepares physic accomplished as we: provid provide students with up-to-demonstrate growth and acl	e students with a s date research kno	sound foundation in the wledge in their scient	ne fundamentals of thi ific discipline; and pro	neir selected scienti	fic discipline;

discussed and approved in October 2009 Assessment Category Assessment Category Assessment Course syllabi, course assessment documents, compiled Student Research/Projects from Assessment Plan Research/Projects Experience was experience with the Experience assessment Experience was experience with the Experience was experience was experience with the Experience was experience was experience with the Experience was experienced. The experience was experience was experienced was experienced was experienced. The experience was experienced was experienced was experienced was experienced. The experience was experienced was experienced was experienced was experienced. The experience was experienced was experienced was experienced. The experience was experienced was experienced was experienced was experienced. The experience was experienced was experienced was experienced was experienced. The experience was experienced was experienced was experienced was experienced. The experienced		Sciences Objectives -	To offer well-planned and pedagogically sound learning exercises in courses and in research projects.	To offer coursework and training appropriate for employment related to departmental	experiences appropriate to the prerequisites of specified post- baccalaureate	To provide coursework and research opportunities that include opportunities to use equipment.	prepared faculty, reward good teaching, encourage faculty to conduct funded research	environmental features of our region, state, continent and world; the facilities
CategoryOutcomesExperiencesResourcesAssessment Data Sets from Assessment PlanCourse syllabi, course assessment documents, compiled Student Research/Projects Experience evaluations, MTTC pass rate dataCourse assessments, Course assessments, Student Exit SurveyStudent Exit SurveyCompiled Instrument Usage logs and Annual Instrumentation ReportHLC report form use of unique learning opportunities		approved in			programo		results, and encourage participation in professional organizations.	Hall of Science, including the Long Planetarium, the Geographic Information Systems lab and the Environmental Analysis Laboratory; and the LSSU Aquatic Resource
Data Sets from assessment documents, compiled Student assessments, Student Exit Instrument Usage logs and Annual Instrumentation HLC report form use of unique learning use of unique learning opportunities Program Associate Degree: Chemistry Program Associate Degree: Chemistry Instrument Usage logs and Annual Instrumentation HLC report form use of unique learning use of unique learning opportunities			Academic Experiences		Program Outcomes		~	~
	Data Sets from Assessment Plan		assessment documents, compiled Student Research/Projects Experience evaluations, MTTC pass rate data	assessments, Student Exit	Student Exit Survey	Instrument Usage logs and Annual Instrumentation	HLC report form	data regarding use of unique learning
Upon completion of this program a student will be able to demonstrate The University Supports	Program As			rogram a studen	t will be able to dem	onstrate	The University S	upports

Program Outcomes	1. Factual and theoretical knowledge of chemistry 2. Lab knowledge and skills 3. Competence in the use of chemical instruments and computers 4. Communication skills 5. Information retrieval skills 6. safe chemical practices	Readiness for entry-level employment as a chemical technician	Readiness for advanced coursework in chemistry	An operational knowledge of basic chemical instrumentation as used in chemical analysis	An active and engaged faculty in chemistry	Resources for the maintenance and support of the chemistry program
Program Associate Appl	ied Science: Chemical Tec					
<u> </u>	Upon completion of this p				The University S	
Program Outcomes	1. Factual and theoretical knowledge of chemistry 2. Lab knowledge and skills 3. Competence in the use of instruments and computers 4. Communication skills 5. Information retrieval skills 6. safe chemical practices	Readiness for entry-level employment as a chemical technician	Readiness for advanced coursework in chemistry	An operational knowledge of basic chemical instrumentation as used in chemical analysis	An active and engaged faculty in chemistry and technology	Resources for the maintenance and support of the program including the science labs of Crawford Hall
Program Bachelor of Art						
	Upon completion of this p				The University S	
Program Outcomes	1. Factual and theoretical knowledge of chemistry 2. Lab knowledge and skills 3. Competence in the use of chemical instruments and computers 4. Communication skills 5. Information retrieval skills 6. safe chemical practices	Readiness for employment as a chemist, science technician, or chemical technician at the baccalaureate level	Readiness for graduate study in chemistry, biochemistry or chemistry related fields	Experience and familiarity with full range of chemical instrumentation for analysis and research	An active and engaged faculty in all branches of chemistry	Resources for the maintenance and support of the program including the science labs of Crawford Hall
Program Bachelor of Art	s: Preprofessional Chemis	try				
	Upon completion of this p	rogram a student	will be able to dem	onstrate	The University S	Supports

Out		1. Factual and theoretical knowledge of biology, chemistry, physics, and mathematics 2. Lab knowledge and skills 3. Competence in the use of chemical instruments 4. Communication skills 5. Information retrieval skills 6. safe chemical practices	Readiness for employment as a chemist, science technician, or chemical technician at the baccalaureate level	study in professional fields of pharmacy, veterinary medicine, and medical school	Experience and familiarity with full range of chemical instrumentation for analysis and research	An active and engaged faculty in all branches of chemistry	Resources for the maintenance and support of the program including the science labs of Crawford Hall
Program Bache		ence: Applied Geographic					
		Upon completion of this p				The University S	
Oute		knowledge of geographic information systems 2. Software knowledge and skills 3. Competence in the use of geographic information analysis tools 4. Communication skills 5. Information management skills	Readiness for employment as a GIS specialist at the baccalaureate level	Readiness for post- baccalaureate study in geographic information systems	Experience and familiarity with GIS database managaement, GIS data collection, processing and analysis	An active and engaged faculty current in the developments and advances in GIS	Resources for the maintenance and support of the program including the GIS laboratory and software
Program Bachel							
		Upon completion of this p				The University S	
Out	gram comes	 Factual and theoretical knowledge of chemistry 2. Lab knowledge and skills Competence in the use of chemical instruments and computers 4. Communication skills 5. Information retrieval skills safe chemical practices 	Readiness for employment as a chemist, science technician, or chemical technician at the baccalaureate level	Readiness for graduate study in chemistry, biochemistry or chemistry related fields	Experience and familiarity with full range of chemical instrumentation for analysis and research	An active and engaged faculty in chemistry	Resources for the maintenance and support of the program including the science labs of Crawford Hall
Program Bachel		ence: Chemistry Education					
		Upon completion of this p	rogram a student	t will be able to dem	onstrate	The University S	upports

	Dua	1 Factual and theoretical	Doodings for	Doodings for	Typorionoo and	An active and	Resources for the
	Program Outcomes	Factual and theoretical knowledge of chemistry	Readiness for employment as a	Readiness for graduate study in	Experience and familiarity with full	An active and engaged faculty	maintenance and
١	Outcomes			-	-		
		and educational pedagogy in science 2. Lab	chemistry teacher in	chemistry,	range of chemical instrumentation for	in chemistry,	support of the
				biochemistry or		including	program including the science labs
		knowledge and skills 3.	classrooms at	chemistry related	education, analysis	chemical	
		Competence in the use of	grade levels 6-	fields, especially	and research	educators	of Crawford Hall
		chemical instruments and	12	advanced study in			
		computers 4.		science education			
		Communication skills					
		including effective					
		instructional practices for					
		class and laboratory					
		activities 5. Information					
		retrieval skills 6. safe					
		chemical practices 7. A					
		passing score on the					
		Michigan Test for Teacher					
		Certification for this subject-					
		area					
Program Bac	chelor of Sci	ence: Environmental Chen					
		Upon completion of this p	rogram a student			The University S	
F	Program	Upon completion of this p 1. Factual and theoretical	rogram a student Readiness for	Readiness for	Experience and	An active and	Resources for the
F		Upon completion of this p 1. Factual and theoretical knowledge of chemistry,	rogram a student Readiness for employment in	Readiness for graduate study in	Experience and familiarity with full	An active and engaged faculty	Resources for the maintenance and
F	Program	Upon completion of this p 1. Factual and theoretical knowledge of chemistry, biology, and environmental	rogram a student Readiness for employment in business or	Readiness for graduate study in chemistry,	Experience and familiarity with full range of chemical	An active and engaged faculty in chemistry and	Resources for the maintenance and support of the
F	Program	Upon completion of this p 1. Factual and theoretical knowledge of chemistry, biology, and environmental science 2. Lab knowledge	rogram a student Readiness for employment in business or industry as an	Readiness for graduate study in chemistry, environmental	Experience and familiarity with full range of chemical instrumentation for	An active and engaged faculty in chemistry and applied	Resources for the maintenance and support of the program including
F	Program	Upon completion of this p 1. Factual and theoretical knowledge of chemistry, biology, and environmental science 2. Lab knowledge and skills 3. Competence	rogram a student Readiness for employment in business or industry as an environmental	Readiness for graduate study in chemistry, environmental toxicology,	Experience and familiarity with full range of chemical instrumentation for environmental and	An active and engaged faculty in chemistry and applied environmental	Resources for the maintenance and support of the program including the science labs
F	Program	Upon completion of this p 1. Factual and theoretical knowledge of chemistry, biology, and environmental science 2. Lab knowledge and skills 3. Competence in the use of chemical	rogram a student Readiness for employment in business or industry as an environmental chemist,	Readiness for graduate study in chemistry, environmental toxicology, biochemistry or	Experience and familiarity with full range of chemical instrumentation for environmental and chemical analysis	An active and engaged faculty in chemistry and applied environmental applications of	Resources for the maintenance and support of the program including
F	Program	Upon completion of this p 1. Factual and theoretical knowledge of chemistry, biology, and environmental science 2. Lab knowledge and skills 3. Competence in the use of chemical instruments and computers	Readiness for employment in business or industry as an environmental chemist, chemist,	Readiness for graduate study in chemistry, environmental toxicology, biochemistry or other chemistry	Experience and familiarity with full range of chemical instrumentation for environmental and chemical analysis and for	An active and engaged faculty in chemistry and applied environmental	Resources for the maintenance and support of the program including the science labs
F	Program	Upon completion of this p 1. Factual and theoretical knowledge of chemistry, biology, and environmental science 2. Lab knowledge and skills 3. Competence in the use of chemical instruments and computers 4. Communication skills	Readiness for employment in business or industry as an environmental chemist, chemist, environmental	Readiness for graduate study in chemistry, environmental toxicology, biochemistry or	Experience and familiarity with full range of chemical instrumentation for environmental and chemical analysis and for environmental	An active and engaged faculty in chemistry and applied environmental applications of	Resources for the maintenance and support of the program including the science labs
F	Program	Upon completion of this p 1. Factual and theoretical knowledge of chemistry, biology, and environmental science 2. Lab knowledge and skills 3. Competence in the use of chemical instruments and computers 4. Communication skills incluincluding effective	rogram a student Readiness for employment in business or industry as an environmental chemist, chemist, environmental scientist, science	Readiness for graduate study in chemistry, environmental toxicology, biochemistry or other chemistry	Experience and familiarity with full range of chemical instrumentation for environmental and chemical analysis and for	An active and engaged faculty in chemistry and applied environmental applications of	Resources for the maintenance and support of the program including the science labs
F	Program	Upon completion of this p 1. Factual and theoretical knowledge of chemistry, biology, and environmental science 2. Lab knowledge and skills 3. Competence in the use of chemical instruments and computers 4. Communication skills incluincluding effective instructional practices for	Readiness for employment in business or industry as an environmental chemist, chemist, environmental scientist, science researcher or	Readiness for graduate study in chemistry, environmental toxicology, biochemistry or other chemistry	Experience and familiarity with full range of chemical instrumentation for environmental and chemical analysis and for environmental	An active and engaged faculty in chemistry and applied environmental applications of	Resources for the maintenance and support of the program including the science labs
F	Program	Upon completion of this p 1. Factual and theoretical knowledge of chemistry, biology, and environmental science 2. Lab knowledge and skills 3. Competence in the use of chemical instruments and computers 4. Communication skills incluincluding effective instructional practices for class and laboratory	Readiness for employment in business or industry as an environmental chemist, chemist, environmental scientist, science researcher or science	Readiness for graduate study in chemistry, environmental toxicology, biochemistry or other chemistry	Experience and familiarity with full range of chemical instrumentation for environmental and chemical analysis and for environmental	An active and engaged faculty in chemistry and applied environmental applications of	Resources for the maintenance and support of the program including the science labs
F	Program	Upon completion of this p 1. Factual and theoretical knowledge of chemistry, biology, and environmental science 2. Lab knowledge and skills 3. Competence in the use of chemical instruments and computers 4. Communication skills incluincluding effective instructional practices for class and laboratory activities 5. Information	Readiness for employment in business or industry as an environmental chemist, chemist, environmental scientist, science researcher or	Readiness for graduate study in chemistry, environmental toxicology, biochemistry or other chemistry	Experience and familiarity with full range of chemical instrumentation for environmental and chemical analysis and for environmental	An active and engaged faculty in chemistry and applied environmental applications of	Resources for the maintenance and support of the program including the science labs
F	Program	Upon completion of this p 1. Factual and theoretical knowledge of chemistry, biology, and environmental science 2. Lab knowledge and skills 3. Competence in the use of chemical instruments and computers 4. Communication skills incluincluding effective instructional practices for class and laboratory activities 5. Information retrieval skills 6. safe	Readiness for employment in business or industry as an environmental chemist, chemist, environmental scientist, science researcher or science	Readiness for graduate study in chemistry, environmental toxicology, biochemistry or other chemistry	Experience and familiarity with full range of chemical instrumentation for environmental and chemical analysis and for environmental	An active and engaged faculty in chemistry and applied environmental applications of	Resources for the maintenance and support of the program including the science labs
F	Program	Upon completion of this p 1. Factual and theoretical knowledge of chemistry, biology, and environmental science 2. Lab knowledge and skills 3. Competence in the use of chemical instruments and computers 4. Communication skills incluincluding effective instructional practices for class and laboratory activities 5. Information	Readiness for employment in business or industry as an environmental chemist, chemist, environmental scientist, science researcher or science	Readiness for graduate study in chemistry, environmental toxicology, biochemistry or other chemistry	Experience and familiarity with full range of chemical instrumentation for environmental and chemical analysis and for environmental	An active and engaged faculty in chemistry and applied environmental applications of	Resources for the maintenance and support of the program including the science labs
F	Program Outcomes	Upon completion of this p 1. Factual and theoretical knowledge of chemistry, biology, and environmental science 2. Lab knowledge and skills 3. Competence in the use of chemical instruments and computers 4. Communication skills incluincluding effective instructional practices for class and laboratory activities 5. Information retrieval skills 6. safe chemical practices	Readiness for employment in business or industry as an environmental chemist, chemist, environmental scientist, science researcher or science technician.	Readiness for graduate study in chemistry, environmental toxicology, biochemistry or other chemistry	Experience and familiarity with full range of chemical instrumentation for environmental and chemical analysis and for environmental	An active and engaged faculty in chemistry and applied environmental applications of	Resources for the maintenance and support of the program including the science labs
F	Program Outcomes	Upon completion of this p 1. Factual and theoretical knowledge of chemistry, biology, and environmental science 2. Lab knowledge and skills 3. Competence in the use of chemical instruments and computers 4. Communication skills incluincluding effective instructional practices for class and laboratory activities 5. Information retrieval skills 6. safe	Readiness for employment in business or industry as an environmental chemist, chemist, environmental scientist, science researcher or science technician.	Readiness for graduate study in chemistry, environmental toxicology, biochemistry or other chemistry related fields.	Experience and familiarity with full range of chemical instrumentation for environmental and chemical analysis and for environmental research	An active and engaged faculty in chemistry and applied environmental applications of	Resources for the maintenance and support of the program including the science labs of Crawford Hall

	Program Outcomes	1. Factual and theoretical knowledge of chemistry, biology, geology, environmental science, public health and epidemiology. 2. Lab knowledge and skills related to assessment of public health 3. Competence in the use of scientific tools of analysis and computers 4. Communication skills including 5. Information retrieval skills	Readiness for employment in business or industry as a public health officer, registered sanitarian or environmental scientist	Readiness for graduate study in environmental health environmental toxicology, biochemistry or other chemistry related fields.	Experience and familiarity with full range of chemical instrumentation for environmental and chemical analysis and for environmental research	An active and engaged faculty in chemistry and applied environmental applications of chemistry	Resources for the maintenance and support of the program including the science labs of Crawford Hall
Program Ba	chelor of Sc	ience: Environmental Mana					
		Upon completion of this p				The University S	
	Program Outcomes		Readiness for employment in business or industry as an environmental manager, plant manager for drinking water or wastewater	Readiness for graduate study in business or environmental science	Experience and familiarity with full range of chemical instrumentation for environmental and chemical analysis and for environmental research	An active and engaged faculty in chemistry and applied environmental applications of chemistry	Resources for the maintenance and support of the program including the science labs of Crawford Hall
Program Ba	chelor of Sc	ience: Environmental Scier					
		Upon completion of this p	onstrate	The University S	upports		

	Program Outcomes	1. Factual and theoretical knowledge of chemistry, biology, and environmental science 2. Crossdisciplinary laboratory knowledge and skills 3. Competence in the use of science instruments and computers 4. Communication skills 5. Information retrieval skills 6. safe laboratory practices	Readiness for employment in business or industry as an environmental scientist, biological technician, physical science technician, polllution control speciist, laboratory chemist environmental specialist or environmental field technician.	Readiness for graduate study in environmental science, environmental chemistry, environmental toxicology, biochemistry or other chemistry related fields.	Experience and familiarity with full range of chemical instrumentation for environmental and chemical analysis and for environmental research	An active and engaged faculty in chemistry and applied environmental applications of chemistry	Resources for the maintenance and support of the program including the science labs of Crawford Hall and the Environmental Analysis Laboratory.
Program Ba	chelor of Sc	ience: Forensic Chemistry					
	_	Upon completion of this p				The University S	
	Program	1. Factual and theoretical	Readiness for	Readiness for	Experience and	An active and	Resources for the
	Outcomes	knowledge of chemistry, forensics and criminal justice related to forensic analysis 2. Crossdisciplinary laboratory knowledge and skills 3. Competence in the use of	laboratory forensic chemist, crime scene investigator or law enforcement laboratory	graduate study in forensics, forensic analysis or criminalistics	familiarity with chemical instrumentation used for forensic, environmental and chemical analysis.	engaged faculty in chemistry and the forensic applications of chemistry for criminalistics	program including the science labs of Crawford Hall and the Environmental
		science instruments and computers 4. Communication skills 5. Information retrieval skills 6. safe laboratory practices	chemist				Analysis Laboratory.
Program Ba	chelor of Sc	computers 4. Communication skills 5. Information retrieval skills	Elementary Educa			The University S	Laboratory.

Program	1. Factual and theoretical	Readiness for	Readiness for	Experience and	An active and	Resources for the
Outcomes	knowledge of biology,	employment as a	graduate study in	familiarity with the	engaged faculty	maintenance and
	chemistry, Earth/space	science educator	education and	tools of science	in chemistry and	support of the
	science and physics; as	at the	science education	measurment and	physics including	program including
	well as educational	elementary level		analysis, with a	science	the science labs
	pedagogy in science at the	(classroom		focus on	educators	of Crawford Hall
	elementary level 2.	teacher all		instrumentation for		
	Classroom and Lab	grades K-5, and		education, analysis		
	knowledge and skills 3.	science teacher		and research		
	Competence in the use of	grades 6-8)				
	the tools of science 4.					
	Communication skills					
	including effective					
	instructional practices for					
	class and laboratory					
	activities 5. Information					
	retrieval skills 6. safe					
	laboratory practices 7. A					
	passing score on the					
	Michigan Test for Teacher					
	Certification for this subject-					
	area					
Program Bachelor of Sc	ience: Integrated Science-S	Secondary Educa	tion			
	Upon completion of this p	rogram a student	will be able to dem	onstrate	The University S	upports

Program	1. Factual and theoretical	Readiness for	Readiness for	Experience and	An active and	Resources for the
Program						
Outcomes	knowledge of biology,		graduate study in	familiarity with the	,	maintenance and
	chemistry, Earth/space	science educator		tools of science	_	support of the
	science and physics; as	-	science education	measurment and		program including
	well as educational	level (as science		analysis, with a	science	the science labs
	pedagogy in science at the	teacher for all		focus on	educators	of Crawford Hall
	elementary level 2.	content fields in		instrumentation for		
	Classroom and Lab	science from		education, analysis		
	knowledge and skills 3.	grades 6-12)		and research		
	Competence in the use of					
	the tools of science 4.					
	Communication skills					
	including effective					
	instructional practices for					
	class and laboratory					
	activities 5. Information					
	retrieval skills 6. safe					
	laboratory practices 7. A					
	passing score on the					
	Michigan Test for Teacher					
	Certification for this subject-					
	area					
Program Bachelor of Sc	ience: Physical Science-Se	condary Education	n			
	Upon completion of this p	rogram a student	will be able to dem	onstrate	The University S	upports

	Program	1. Factual and theoretical	Readiness for	Readiness for	Experience and	An active and	Resources for the
	Outcomes	knowledge of chemistry,	employment as a	graduate study in	familiarity with full	engaged faculty	maintenance and
		physics and educational	chemistry,	chemistry,	range of chemical	in chemistry and	support of the
		pedagogy in science 2.	physics and	biochemistry,	and physics-based	physics including	program including
		Lab knowledge and skills	physical science	physics or physical	instrumentation for	science	the science labs
		3. Competence in the use	teacher in	science related	education, analysis	educators	of Crawford Hall
		of chemical and physics-	classrooms at	fields, especially	and research		
		based instruments and	grade levels 6-	advanced study in			
		computers 4.	12	science education			
		Communication skills					
		iincluding effective					
		instructional practices for					
		class and laboratory					
		activities 5. Information					
		retrieval skills 6. safe					
		laboratory practices 7. A					
		passing score on the					
		Michigan Test for Teacher					
		Certification for this subject-					
		area					
Program Ba	chelor of Ar	L ts: Chemistry-Secondary E	l ducation				
. rogram · Da	OHOIOI OI AII	onstrate	The University S	upports			

Program Outcomes	1. Factual and theoretical knowledge of chemistry and educational pedagogy in science 2. Lab knowledge and skills 3. Competence in the use of chemical instruments and computers 4. Communication skills including effective instructionial practices for class and laboratory activities 5. Information retrieval skills 6. safe chemical lab practices 7. A passing score on the Michigan Test for Teacher Certification for this subject-	Readiness for employment as a chemistry teacher in classrooms at grade levels 6-12	Readiness for graduate study in chemistry, biochemistry or chemistry related fields, especially advanced study in science education	Experience and familiarity with full range of chemical instrumentation for education, analysis and research	An active and engaged faculty in chemistry, including chemical educators	Resources for the maintenance and support of the program including the science labs of Crawford Hall
	area					
Program-Bachelor of Scientific	ence: Geology					
Upon compl	etion of this program a stu	dent will be able	to demonstrate		The University su	oports
Program-Bachelor of Scie	1. theoretical and practical knowledge of geologic principles; 2. conduct field and laboratory studies; 3. produce and interpret geoscience maps and cross sections using geologic software; 4. communication skills	Readiness for geoscience employment such as: an environmental geologist, public sector geoscientist, mud logger, geophysicist, mine geologist, exploration geologist, etc.	Readiness for graduate school and competiveness for graduate assistantships	Competence using field, laboratory and computer equipment to solve geologic problems	Scholarship where undergraduate students have the opportunity to engage in geoscience	Resources for the maintenance and support of the geology program including field trip expenses and logistics, Crawford Hall laboratory equipment and facilities and appropriate technology and software
	etion of this program a stu	dent will be able	to demonstrate		The University su	nnorte
Topon compi	enon or this program a stu	dent will be able	to demonstrate		The University Su	υρυτιδ

	<u>'</u>	Readiness for employment as	Readiness for graduate studies in	Competence using field, laboratory and	•	Resources for the maintenance and
print and progeo crosscie obtain (See Sciengre)	nciples; 2. conduct field d laboratory studies; 3. oduce and interpret oscience maps and oss sections; 4. earth ience competence by taining a score on the chigan Teacher ertification Training TTC) Examination econdary - Earth/Space ience) equal to or eater than the state erage, 5. communication	employment as an earth science teacher at the 6-12 grade level	•	computer equipment to solve geologic problems	undergraduate students have the opportunity to engage in research, often publishable, including science education research, working with	support of the geology program including field trip expenses and logistics, Crawford Hall laboratory