

MAZINA'IGAN

Course Catalog

2017-2019



VISION

To be recognized as a center of academic excellence that advances Anishinaabe worldviews and empowers lifelong learners to be fully-engaged citizens, stewards, and leaders.

MISSION

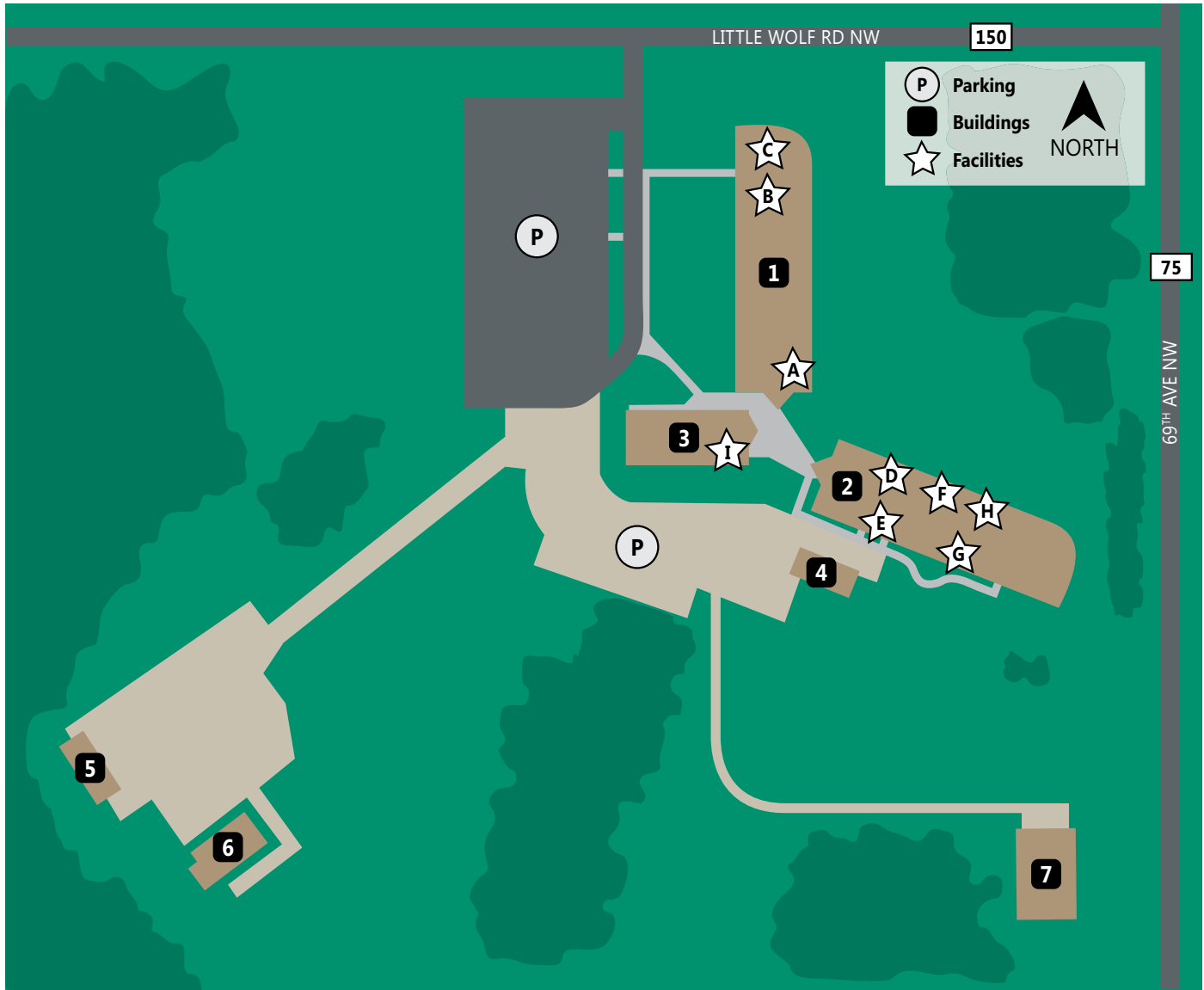
Leech Lake Tribal College provides quality higher education grounded in Anishinaabe values.

MOTTO

The path to knowledge is eternal.



CAMPUS MAP



1 - Mitigominzh Wigamig (Oak Hall)

Classroom Numbers 100+

A. Main Entrance/Reception Desk	101
Security Office	102
Computer Labs	105 & 111
B. IT Department (Tech Support)	112
C. Print Shop/Bookstore	118
Maintenance Office	119

2 - Giizhiikaandag Wigamig (Cedar Hall)

Classroom Numbers 200+

Fitness Room	200
Student Lounge	201
D. Wellness Center	203
E. Drum Room	205
F. Student Services	207
G. Financial Aid Office	210 E

H. Finance Office	211
Adult Basic Education	213

3 - Agindaasoo Wigamig (Library)

Classroom Numbers 300+

I. Learning Center	301
Academic Tutoring / Quiet Study Areas	

4 - Wiigwaasi Wigamig (Birch Building)

Early Headstart

5 - Wawezhazewong Wigamig / Clem Nason Building (Where the River Meets the Lake Building)

Law Enforcement Classrooms

6 - Iniaatig Wigamig (Maple Building)

Construction Trades Classrooms

7 - Ogichidaag Wigamig (Warrior's Building)

Storage & School Vehicles



PROGRAMS OF STUDY

ASSOCIATE IN ARTS

Liberal Education
 Liberal Education with STEM Emphasis
 Indigenous Leadership
 Early Childhood Education

ASSOCIATE IN SCIENCE

Earth Systems Science
 Forest Ecology

ASSOCIATE IN APPLIED SCIENCE

Business Management
 Law Enforcement
 Integrated Residential Carpentry

DIPLOMA

Construction Electricity
 Residential Carpentry

DISCIPLINE ABBREVIATIONS

Accounting	ACCT	Ojibwe Language	OJI
Anishinaabe Studies	ANI	Philosophy	PHIL
Art	ART	Physical Education	PE
Biology	BIO	Political Science	POLSC
Building Trades	BLTD	Psychology	PSY
Business	BUS	Renewable Energy	ENER
Chemistry	CHEM	Residential Carpentry	CARP
Construction Electricity	ELEC	Sociology	SOC
Early Childhood Education	ECE	Speech Communications	SPCH
Education	EDU	Tribal Administration	TA
English	ENGL		
Earth Systems Science	ESS		
Forestry	FOR		
Geography	GEOG		
Geology	GEOL		
History	HIS		
Information Technology	ITECH		
Law Enforcement	LE		
Mathematics	MATH		
Music	MUS		









PROGRAMS OF STUDY



LEECH LAKE TRIBAL COLLEGE GENERAL EDUCATION REQUIREMENTS

Students who pursue a degree at Leech Lake Tribal College will be required to take general education courses or core courses related to each specific degree program. General education courses are designed to provide foundational education. See specific degree requirements for additional details.

Minnesota Transfer Curriculum

Students transferring from LLTC to another Minnesota public institution of higher education will have fulfilled the Core liberal education requirements if they have completed required courses in the following ten categories: Communication, Critical Thinking, Earth Systems Science, Mathematics, History and the Social/Behavioral Sciences, Humanities & Arts, Human Diversity, Global Perspectives, Ethical and Civic Responsibility, and People and the Environment.

Catalog Year Policy

Leech Lake Tribal College students are required to fulfill the graduation and academic program requirements for the Catalog in place in the semester they begin taking classes as degree-seeking students. Students must use a single catalog and not a combination of catalogs for graduation.

If students wish to change their catalog for graduation, they should first discuss with their advisors how such a change would affect college and program requirements. If students decide to request a change, they must complete the Catalog Year Change Request Form available in Student Services. The completed form should be submitted to the Registrar's Office.



BABAAMIZIWIN MIINAWAA ANISHINAABE OGIMAAG

Business and Tribal Administration.



ASSOCIATE OF APPLIED SCIENCE, BUSINESS MANAGEMENT

The Business Management A.A.S. program at LLTC is structured to include courses that represent the general business functions and issues in national, international, tribal, or intertribal environments. This program includes study of the history, culture and language of the Anishinaabe.

Courses are structured to provide students with an excellent understanding of how to manage a business while being grounded in Anishinaabe language and values. The basic requirements for an A.A.S. degree in Business Management is the completion of 60 credits.

Individuals who aspire to advance their careers may be interested in pursuing further educational opportunities to refine and enhance their capabilities. The credits a student earns at Leech Lake Tribal College are accredited and will transfer to colleges of the student's choice, depending on the transfer equivalency guidelines.

Programmatic Student Learning Outcomes

Graduates will be able to:

- Systematically study and understand business practices from an indigenous perspective by reaching out to local business, analyzing them and giving the business owners feedback in ways that the business could improve.
- Solve business problems and test the accuracy of the proposed solutions by analyzing business case studies.
- Understand the marketing, management and financial/accounting aspects of a business and how knowledge/awareness in these areas is used to make sound business decisions.
- Understand and plan for the application of the "Nation Building" philosophy and processes in tribal administration
- Understand the history, culture, values and language of the Anishinaabe.



2017-2019 Business Management Program of Study

General Education Courses: 31-32 credits			Cr.	Pre-Req	Term	CK
ANI 100	Introduction to Anishinaabe Studies	3		FA/SP		
EDU 102	Miikana (FYE)	2		FA/SP		
ENGL 101	English Composition I	3		FA/SP		
ITECH 100	Computer Applications I	3		FA/SP		
MATH 140	Concepts in Mathematics or Higher	4/3		FA/SP		
OJI 101	Speaking Ojibwe I	4		FA/SP		
POLSC 225	Treaty Law and Tribal Sovereignty	3		Spring		
SPCH 201	Speech and Communications	3	ENGL 101			
TA 210	Tribal Administration	3	BUS 100	Spring		

Category 3: Natural Science- 4 credits			Cr.	Pre-Req	Term	CK
Biological Science Options						
BIO 121	General Biology I & Lab	4		Fall		
Physical Science Options						
CHEM 100	Foundations of Chemistry & Lab	4		Fall		
* or GEOL 110	Intro to Geology and Earth Systems	4		Fall		

BM Program Requirements- 25 credits			Cr.	Pre-Req	Term	CK
ACCT 110	Real Life Financial Information	3		Spring		
ACCT 150	Financial Accounting	4	MAT 140 or IP	Spring		
BUS 100	Introduction to Business	3		Fall		
BUS 160	Human Resource Management	3		Fall		
BUS 190	Principles of Marketing	3	BUS 100	Fall		
BUS 230	Management/Leadership	3	BUS 100	Spring		
BUS 250	Business Law	3	BUS 100	Spring		
BUS 260	Business Communications	3	BUS 100	Fall		

BM Electives- 3 credits			Cr.	Pre-Req	Term	CK
ACCT 120	Payroll Accounting	3				
BUS 295	Special Topics	3				
BUS 270	Entrepreneurship	3	BUS 100			
BUS 299	Internship	3	BUS 100			
ITECH 150	Computer Applications II	3				

Total=			60 Credits		
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* Course completes more than one category requirement, but credits may only be counted once.
 Please note that some of the pre-req's may be completed based on competency.



GIWAAKAA'IGEMIN

We build.



RESIDENTIAL CARPENTRY ONE-YEAR DIPLOMA & INTEGRATED RESIDENTIAL BUILDER A.A.S. DEGREE

Our **Residential Carpentry** diploma program is a two semester commitment in residential construction. LLTC faculty will prepare students in the process and methods used in the installation and maintenance of structures through project based learning.

Our **Integrated Residential Builder** A.A.S degree program is a holistic response to climate change, energy poverty and the disappearance of our natural resources. We train our students to use building science, renewable energy and a whole house systems approach to construction, while preserving our Ojibwe core values. The IRB program builds upon the Residential Carpentry diploma and is geared towards those who are interested in a multidiscipline approach to construction. Graduates of the IRB A.A.S. program will have working knowledge of a variety of sustainable energy technologies including solar, permaculture design, building envelope, and heating/cooling system alternatives.

Programmatic Learning Outcomes:

Graduates will be able to:

- Demonstrate professionalism and related employability skills.
- Exhibit safety practices and procedures.
- Pass first aid and CPR exam
- Develop skills necessary to pass the Minnesota State Electrical Board test
- Develop skills necessary to meet requirements for a union apprenticeship
- Implement the national electrical code and NFP where necessary in hands-on learning experiences
- Demonstrate knowledge of common safety rules with equipment operation and practices
- Develop writing skills necessary for business communications in the electrical field: bids, contracts, business letters, resume and cover letters, etc.
- Pass the OSHA certification exam



- Build, install, maintain and repair electrical systems for commercial and residential buildings
- Work with the LLTC Carpentry Program to develop and practice the skills of time management and collaboration on a construction project, such as building a house.

Integrated Residential Builder 2017-2019 Program of Study

General Education Courses: 20 credits			Cr.	Pre-Req	Term	CK
	ANI 150	Traditional Building Arts	2			
	or CARP 212	Landscape Construction	2			
	BUS 270	Entrepreneurship	3		FA/SP	
*	EDU 100	Critical Thinking & Problem Solving	1		FA/SP	
*	EDU 140	Professional Skills Development	3		FA/SP	
*	ITECH 100	Computer Applications I	3		FA/SP	
*	or ANI 100	Introduction to Anishinaabe Studies	3		FA/SP	
*	MATH 100	Technical Math	4			
	GEOL 110	Intro to Geology and Earth Systems	4		Fall	

LE Program Requirements- 42 credits			Cr.	Pre-Req	Term	CK
*	BLTD 100	Construction Codes	1			
*	BLTD 110	Blueprint Plans & Specs	2			
*	BLTD 114	Construction Safety	2			
*	CARP 112	Welding I	2			
*	CARP 114	Framing Sustainable Design	5			
*	CARP 116	Foundation & Footing Design	3			
*	CARP 120	Interior & Exterior Finishes	4			
	CARP 200	Weatherization Applications in Building	2			
	CARP 206	Advanced Framing Techniques	2			
	CARP 210	2D Layout for Shop & Construction	1			
	CARP 216	Woodworking	2			
	CARP 295	Carpentry Internship	1			
	ELEC 110	Introduction to Electrical Circuit Theory	3			
*	ENER 150	Introduction to Renewable Energy	3			
	ENER 160	Sustainable Landscape Design & Site Planning	3			
	ENER 200	Residential Mechanical Systems	3			
	ENER 210	Introduction to Photovoltaics	3			

Non-Course Requirement						
*	CPR & First Aid			<input type="checkbox"/> Met <input type="checkbox"/> Not Met		
			Total=	62 Credits		

* Complete these courses for the Residential Carpentry diploma.
 Please note that some of the pre-req's may be completed based on competency.



GENAWENDAMOWAAD INAAKONIGEWIN



ASSOCIATE OF APPLIED SCIENCE, LAW ENFORCEMENT

The Law Enforcement Associate in Applied Science degree is part of the Professional Peace Officer Education Program requirement for the Minnesota Peace Officer licensing standards. All course work is certified by the Minnesota Board of Peace Officer Standards and Training (POST) and meets the mandated learning objectives. The degree also applies for those interested in other areas of the justice system, however this program is not designed to be a two-year transferable program.

LLTC provides the mandated *education* for this degree. The mandated *skills training* is presently provided by Hibbing Community College. These programs together meet and surpass the Minnesota requirements to be a licensed police officer.

Our students come from a range of backgrounds. Some are recent high school graduates, others are looking for a career change. For the vast majority, our program is a solid match.

Upon entrance and registration for the Law Enforcement program, all students are required to complete a criminal background check with the State of Minnesota. If a student's criminal background check puts him/her at risk of being ineligible for POST certification, that student will be informed of such by the Law Enforcement Program Coordinator. If necessary, other program options will be recommended.

Programmatic Learning Outcomes

Graduates will be able to:

- Understand the complexity of the criminal justice system and the role of the peace officer within the system.
- Apply Minnesota statutes, Bill of Rights and lawful procedures, along with Minnesota traffic laws, as needed to make lawful warrantless and warranted arrests.
- Demonstrate knowledge of the juvenile justice laws and procedures.
- Discuss the requirement to sit for the Minnesota POST exam.
- Understand the complex relationship of multiple jurisdictions on tribal lands.



The skills courses are offered through Hibbing Community College and are NOT part of the A.A.S. Degree. They are required to satisfy the Minnesota P.O.S.T. learning objectives to qualify to take the Minnesota Peace Officers Exam. Please see the Minnesota P.O.S.T. web site for complete information concerning peace officer standards and training.

Other Requirement include: having a First Responders Certification, MMPI Psychological exam (\$165.00), a physical exam (on your own), and a valid driver's license to attend the skills training.

Law Enforcement 2017-2019 Program of Study

General Education Courses: 30 credits		Cr.	Pre-Req	Term	CK
ANI 100	Introduction to Anishinaabe Studies	3		FA/SP	
Category 3	Natural Science course with a Lab	4		FA/SP	
EDU 102	Miikana (FYE)	2		FA/SP	
ENGL 101	English Composition I	3		FA/SP	
ITECH 100	Computer Applications I	3		FA/SP	
POLSC 225	Treaty Law and Tribal Sovereignty	3			
PSY 100	General Psychology	3			
PSY 220	Abnormal Psychology	3	PYS 100	Spring	
SOC 101	Introduction to Sociology	3			
SPCH 201	Speech and Communications	3	ENGL 101		

LE Program Requirements- 33 credits		Cr.	Pre-Req	Term	CK
LE 105	Introduction to Criminal Justice	3		Fall	
LE 110	Minnesota Traffic Law	3		Spring	
LE 111	Minnesota State Statutes	3		Fall	
LE 122	Constitutional Law and Civil Liability	3	LE 111	Spring	
LE 150	Report Writing	3	LE 111	Spring	
LE 209	Community Policing Tribal Lands	3	LE 122	Spring	
LE 210	Juvenile Delinquency and Justice	3	LE 105	Fall	
LE 221	Evidence, Procedure, and Criminal Investigations	3	LE 122	Spring	
LE 223	Controlled Substances: Identification and Investigation	3		Spring	
LE 280	Police Ethics	3	LE 209	Fall	
PE 100	Physical Conditioning	3		Spring	

Non-Course Requirement	
EMS-First Responder	<input type="checkbox"/> Met <input type="checkbox"/> Not Met

POST Skills Training (Hibbing Community College) Required to qualify for MN Peace Officers Exam. 12 credits				
			Total= 63 Credits	

Please note that some of the pre-req's may be completed based on competency.



MENOBAMOOZHEWAAD



ASSOCIATE OF ARTS, EARLY CHILDHOOD EDUCATION

Open your possibilities to being a mentor and to have a vital influence on young children and their families by earning your Associate of Arts degree in Early Childhood Education at Leech Lake Tribal College.

By combining our teaching curriculum with foundational core courses, you will be taking steps toward becoming a successful teacher of young children. Our program provides each student with an opportunity to customize their educational background to fit their current needs and to further their education to a four-year degree. Courses are offered during evenings on campus, online, or a combination of both.

This program is designed for students to receive an Associate in Arts degree in Early Childhood Education. Leech Lake Tribal College offers a combination of culturally relevant course work, general liberal arts courses, interactive education classes, and practical experience with young children. Instructors provide individual assistance and classroom experience that address many individual learning styles.

Four-year degree opportunity:

LLTC has an articulation agreement with Southern Minnesota State University in Marshall, in which students may receive a four-year degree. The program is online and students can remain at their job while working towards their degree.

Programmatic Learning Outcomes

Graduates will be able to:

- Understand how young children learn and develop.
- Help young children build creative and critical thinking skills.
- Build positive relations with families.
- Promote the integration of current theories, active learning methods, developmentally appropriate practices, and classroom management techniques into all early childhood environments.



Early Childhood Education 2017-2019 Program of Study

LLTC Core Requirements- 18 credits			Cr.	Pre-Req	Term	CK List
ANI 100	Introduction to Anishinaabe Studies	3		FA/SP		
EDU 102	Miikana (FYE)	2		FA/SP		
ENGL 101	English Composition I	3		FA/SP		
ITECH 100	Computer Applications I	3		FA/SP		
OJI 101	Speaking Ojibwe I	4		FA/SP		
OJI 102	Speaking Ojibwe II	4	OJI 101	FA/SP		

Category 1: Communications-3 credits			Cr.	Pre-Req	Term	CK List
ENGL 102	English Composition II	3	ENGL 101	FA/SP		
or SPCH 201	Speech and Communications	3	ENGL 101	FA/SP		

Category 2: Critical Thinking (Satisfied by MNTC requirements)

Category 3: Natural Science-7 credits minimum: 1 Biological, 1 Physical			Cr.	Pre-Req	Term	CK List
Biological Science Options						
BIO 121	General Biology I & Lab	4		Fall		
* or BIO 204	Environmental Science	3				
Physical Science Options						
CHEM 100	Foundations of Chemistry & Lab	4		Fall		
* or GEOL 110	Intro to Geology and Earth Systems	4		Fall		
or PSCI 150	Indigenous Astronomy	3		Spring		

Category 4: Mathematical/ Logical Reasoning- 3 credits			Cr.	Pre-Req	Term	CK List
MATH 140	Concepts in Mathematics	4		FA/SP		
or MATH 150	Beginning College Algebra	3		FA/SP		
or MATH 155	Advanced College Algebra	3	MATH 150	FA/SP		
or MATH 210	Pre-Calculus	3	MATH 155	Spring		
or MATH 250	Calculus	3	MATH 210			

Category 5: History and Social Sciences- 6 credits			Cr.	Pre-Req	Term	CK List
• ECE 180	Child Growth and Development	3		Fall		
ECE 222	Infant and Toddler Development	3				

Category 6: Humanities and Arts- 9 credits			Cr.	Pre-Req	Term	CK List
ART 100 ***	Introduction to Traditional & Contemporary Art	3		Fall		
and ECE 210	Creative Activities with Children	3				
Choose another course from below						
ART 102	Introduction to Pottery	3				
or ART 107	Drawing I	3				
or ART 108	Sculpture	3				



or ART 109	Watercolor Painting	3			
or ART 110	Acrylic and Oil Painting	3			
or ART 113	Jingle Dress Making	2			
or ART 114	Star Quilt Making	2		Spring	
or ART 116	Introduction to Beadwork	3			
or ART 204	Introduction to Moccasin Making	3	ART 116 or IP		
* or ENGL 200	Literature and the Environment	3	ENGL 101		
or ENGL 220	Creative Writing	3	ENGL 101		
or ENGL 250	Contemporary American Indian Literature	3	ENGL 101	Spring	
or ENGL 299	Special Topics in Literature	3	ENGL 102		
or MUS 250	History of Anishinaabe Music and Dance	3		Fall	
or PHIL 200	Indigenous American Philosophy	3		Fall	

Category 7: Human Diversity (Satisfied by LLTC Core ANI 100)
Category 8: Global Perspective (Satisfied by LLTC Core OJI 101)
Category 9: Ethical and Civic Responsibility (Satisfied by LLTC Core ITECH 100)
Category 10: People and the Environment-(Satisfied by BIO 204/GEOL 110/ENGL 200) CK List

or BIO 200	Ethnobiology	3			
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ECE Program Requirements: 13 credits		Cr.	Pre-Req	Term	CK List
ECE 201	The Exceptional Child: Children with Special Needs	3	ECE 180		
• ECE 220	Relations/Management in Child Development	3	ECE 180		
ECE 240	Children, Families, and Communities	3	ECE 220		
• ECE 299	Early Childhood Practicum	4	Inst. App.		
Total=		60 Credits			

* Course completes more than one category requirement, but credits may only be counted once.

*** ART 100 is required if transferring to Southwest Minnesota State University

• Approved CDA certifications will be equivalent to ECE 180/220/299

Please note that some of the pre-req's may be completed based on competency.



NAAGAANIZIWAAD

The ones who are the leaders.



ASSOCIATE OF ARTS, INDIGENOUS LEADERSHIP

Education from an Indigenous American perspective is our unique focus. Leech Lake Tribal College offers an A.A. degree in Indigenous Leadership. This degree integrates Indigenous American studies, contemporary and traditional arts, social studies, humanities, and natural sciences with an Indigenous understanding through a variety of exceptional courses.

A special emphasis is based on Ojibwe language and culture, history, governance and land base; the four elements of nationhood. Based on Ojibwe values, these educational and cultural opportunities prepare our students for success in the world beyond the classroom. They are also designed to prepare students to transfer to four-year programs of study at other colleges and universities.

The credits a student earns at LLTC are accredited and will transfer to colleges of the student's choice, depending on the transfer equivalency guidelines.

Programmatic Learning Outcomes

Graduates will demonstrate:

- an understanding of sense of place based on language, culture, history and land.
- skills to evaluate and interpret artistic, cultural and historical texts and trends within a global context.
- Communication skills to convey information and ideas, in both oral and written forms of Ojibwe and English.
- Critical thinking skills using Anishinaabe world views and scientific inquiry to define problems in a community and global context.
- Comprehension of college-level reading materials and extend their vocabulary through reading in both Ojibwe and English.



Indigenous Leadership 2017-2019 Program of Study

LLTC Core Requirements- 19 credits			Cr.	Pre-Req	Term	CK List
ANI 100	Introduction to Anishinaabe Studies		3		FA/SP	
EDU 102	Miikana (FYE)		2		FA/SP	
ENGL 101	English Composition I		3		FA/SP	
ITECH 100	Computer Applications I		3		FA/SP	
OJI 101	Speaking Ojibwe I		4		FA/SP	
OJI 102	Speaking Ojibwe II		4	OJI 101	FA/SP	

Category 1: Communications-3 credits			Cr.	Pre-Req	Term	CK List
ENGL 102	English Composition II		3	ENGL 101	FA/SP	
or SPCH 201	Speech and Communications		3	ENGL 101	FA/SP	

Category 2: Critical Thinking (Satisfied by MNTC requirements)

Category 3: Natural Science-7 credits minimum: 1 Biological, 1 Physical			Cr.	Pre-Req	Term	CK List
Biological Science Options						
BIO 121	General Biology I & Lab		4		Fall	
* or BIO 204	Environmental Science		3			
Physical Science Options						
CHEM 100	Foundations of Chemistry & Lab		4		Fall	
* or GEOL 110	Intro to Geology and Earth Systems		4		Fall	
or PSCI 150	Indigenous Astronomy		3		Spring	

Category 4: Mathematical/ Logical Reasoning- 3 credits			Cr.	Pre-Req	Term	CK List
MATH 140	Concepts in Mathematics		4		FA/SP	
or MATH 150	Beginning College Algebra		3		FA/SP	
or MATH 155	Advanced College Algebra		3	MATH 150	FA/SP	
or MATH 210	Pre-Calculus		3	MATH 155	Spring	
or MATH 250	Calculus		3	MATH 210		

Category 5: History and Social Sciences- 3 credits			Cr.	Pre-Req	Term	CK List
SOC 101	Introduction to Sociology		3			
or HIS 101	U.S. and Indigenous American History, 1830-Present		3			
or PSY 100	Introduction to Psychology		3			
or PSY 200	Indigenous American Psychology		3		Spring	

Category 6: Humanities and Arts- 9 credits			Cr.	Pre-Req	Term	CK List
ART 100	Introduction to Traditional & Contemporary Art		3		Fall	
and ENGL 250	Contemporary American Indian Literature		3	ENGL 101	Spring	
Choose another course from below						



*	ENGL 200	Literature and the Environment	3	ENGL 101		
	or ENGL 220	Creative Writing	3	ENGL 101		
	or ENGL 299	Special Topics in Literature	3	ENGL 102		
	or ART 102	Introduction to Pottery	3			
	or ART 107	Drawing I	3			
	or ART 108	Sculpture	3			
	or ART 109	Watercolor Painting	3			
	or ART 110	Acrylic and Oil Painting	3			
	or ART 113	Jingle Dress Making	2			
	or ART 114	Star Quilt Making	2		Spring	
	or ART 116	Introduction to Beadwork	3			
	or ART 204	Introduction to Moccasin Making	3	ART 116 or IP		
	or MUS 250	History of Anishinaabe Music and Dance	3		Fall	
	or PHIL 200	Indigenous American Philosophy	3		Fall	

Category 7: Human Diversity (Satisfied by LLTC Core ANI 100)
Category 8: Global Perspective (Satisfied by LLTC Core OJI 101)
Category 9: Ethical and Civic Responsibility (Satisfied by LLTC Core ITECH 100)
Category 10: People and the Environment-(Satisfied by BIO 204/ENG 200)

				Term	CK List
	BIO 200	Ethnobiology	3		
*	or ENGL 200	Literature and the Environment	3	ENGL 101	

IL Program Requirements: 15 credits

			Cr.	Pre-Req	Term	CK List
	ANI 200	Indigenous Leadership	3		Spring	
	ANI 299	Indigenous American Internship	3	Inst. App	Spring	
	HIS 150	History of Leech Lake	3		F/S	
	PHIL 200	Indigenous American Philosophy	3		Fall	
	POLSC 225	Treaty Law and Tribal Sovereignty	3		Spring	

IL Electives: 4 credits

			Cr.	Pre-Req	Term	CK List
	ANI 290	Knowledge Bowl Preparation	2		Spring	
	or ANI 291	Knowledge Bowl Preparation II	2		Spring	
	or ANI 298	Nationhood & Gathering of Manoomin	3		Fall	
	or OJI 201	Speaking Ojibwe III	4	OJI 102		
	or SOC 200	Indigenous American Women	3		Spring	
	or PSY 200	Indigenous American Psychology	3		Spring	
	or HIS 101	U.S. and Indigenous American History, 1830-Present	3			
Total=			63 Credits			

* Course completes more than one category requirement, but credits may only be counted once.
 Please note that some of the pre-req's may be completed based on competency.



ANOOJ GIKENDAASOWIN



ASSOCIATE OF ARTS, LIBERAL EDUCATION

This program is designed for students to receive a Liberal Education Associate of Arts degree. This program is a two-year course of study designed intentionally as an exploration of and exposure to many disciplines.

This development to a wide area of understanding of liberal education prepares students for the transfer to four-year institutions. The program is centered and infused with culturally relevant material. The intention of this course of study is to provide students with an exposure to the Ojibwe language and allow them the opportunity to understand Anishinaabe values and how these values can provide a foundation for lifelong learning and community involvement.

The credits a student earns at Leech Lake Tribal College are accredited and will transfer to colleges of the student's choice, depending on the transfer equivalency guidelines.

Programmatic Learning Outcomes

Graduates will be able to:

- Understand/demonstrate the writing and speaking processes through invention, organization, drafting, revision, editing and presentation.
- Use evidence to analyze logical connections and implicit assumptions in order to make decisions and effectively problem solve.
- Demonstrate the understanding of Earth Systems Science principles, methods and scientific inquiry with traditional Indigenous American knowledge perspectives.
- Apply problem solving and/or modeling strategies to their surrounding environment.
- Examine Indigenous and Western social institutions in order to investigate the human condition.
- Demonstrate verbal and nonverbal speaking skills reflecting history, culture and social issues in the lives of Indigenous people.
- Understand the development of and changing meanings of various group identities in



the United States' history and culture.

- Demonstrate knowledge of cultural, social, religious and linguistic differences.
- Understand and apply core concepts (e.g. politics, rights and obligations, justice, liberty) to specific issues.
- Articulate and defend the actions they would take on various environmental issues.
- Communicate via various mediums of technology (e.g. video, audio, powerpoints, word processing)

Liberal Education 2017-2019 Program of Study

LLTC Core Requirements- 19 credits			Cr.	Pre-Req	Term	CK List
ANI 100	Introduction to Anishinaabe Studies		3		FA/SP	
EDU 102	Miikana (FYE)		2		FA/SP	
ENGL 101	English Composition I		3		FA/SP	
ITECH 100	Computer Applications I		3		FA/SP	
OJI 101	Speaking Ojibwe I		4		FA/SP	
OJI 102	Speaking Ojibwe II		4	OJI 101	FA/SP	

Category 1: Communications-3 credits			Cr.	Pre-Req	Term	CK List
ENGL 102	English Composition II		3	ENGL 101	FA/SP	
or SPCH 201	Speech and Communications		3	ENGL 101	FA/SP	

Category 2: Critical Thinking (Satisfied by MNTC requirements)

Category 3: Natural Science-7 credits minimum: 1 Biological, 1 Physical			Cr.	Pre-Req	Term	CK List
Biological Science Options						
BIO 121	General Biology I & Lab		4		Fall	
* or BIO 204	Environmental Science		3			
Physical Science Options						
CHEM 100	Foundations of Chemistry & Lab		4		Fall	
or CHEM 111	General Chemistry I & Lab		4	CHEM 100		
* or GEOL 110	Intro to Geology and Earth Systems		4		Fall	
or PSCI 150	Indigenous Astronomy		3		Spring	

Category 4: Mathematical/ Logical Reasoning- 3 credits			Cr.	Pre-Req	Term	CK List
MATH 140	Concepts in Mathematics		4		FA/SP	
or MATH 150	Beginning College Algebra		3		FA/SP	
or MATH 155	Advanced College Algebra		3	MATH 150	FA/SP	
or MATH 210	Pre-Calculus		3	MATH 155	Spring	
or MATH 250	Calculus		3	MATH 210		

Category 5: History and Social Sciences- 6 credits			Cr.	Pre-Req	Term	CK List
or HIS 101	U.S. and Indigenous American History, 1830-Present		3			



or HIS 150	History of Leech Lake			FA/SP	
or POLSC 225	Treaty Law and Tribal Sovereignty	3		Spring	
or PSY 100	General Psychology	3		FA/SP	
or PSY 140	Developmental Psychology	3			
or PSY 200	Indigenous American Psychology	3		Spring	
or PSY 220	Abnormal Psychology	3	PSY 100		
or SOC 101	Introduction to Sociology	3			

Category 6: Humanities and Arts- 9 credits		Cr.	Pre-Req	Term	CK List
ART 100	Introduction to Traditional & Contemporary Art	3		Fall	
* and ENGL 200	Literature and the Environment	3	ENGL 101		
or ENGL 220	Creative Writing	3	ENGL 101		
or ENGL 250	Contemporary American Indian Literature	3	ENGL 101	Spring	
or ENGL 299	Special Topics in Literature	3	ENGL 102		
Choose another course from below					
ART 102	Introduction to Pottery	3			
or ART 107	Drawing I	3			
or ART 108	Sculpture	3			
or ART 109	Watercolor Painting	3			
or ART 110	Acrylic and Oil Painting	3			
or ART 113	Jingle Dress Making	2			
or ART 114	Star Quilt Making	2		Spring	
or ART 116	Introduction to Beadwork	3			
or ART 204	Introduction to Moccasin Making	3	ART 116 or IP		
or MUS 250	History of Anishinaabe Music and Dance	3		Fall	
or PHIL 200	Indigenous American Philosophy	3		Fall	

Category 7: Human Diversity (Satisfied by LLTC Core ANI 100)
Category 8: Global Perspective (Satisfied by LLTC Core OJI 101)
Category 9: Ethical and Civic Responsibility (Satisfied by LLTC Core ITECH 100)

Category 10: People and the Environment-(Satisfied by BIO 204/ENGL 200)			Term	CK List
or BIO 200	Ethnobiology	3		

General Electives: 8 - 13 credits		Cr.		Term	CK List
Total =		60 Credits			

* Course completes more than one category requirement, but credits may only be counted once.
 Please note that some of the pre-req's may be completed based on competency.



ANOOJ GIKENDAASOWIN: EZHI-AYAAG AKI



ASSOCIATE OF ARTS, LIBERAL EDUCATION WITH S.T.E.M. EMPHASIS

This program is designed for students to receive an Associates of Arts degree in Liberal Education with a STEM Emphasis. Through this program students will have the opportunity to customize their educational background in a variety of science, math and technology topics as they prepare to transition into a four-year Bachelor of Science degree.

Programmatic Learning Outcomes

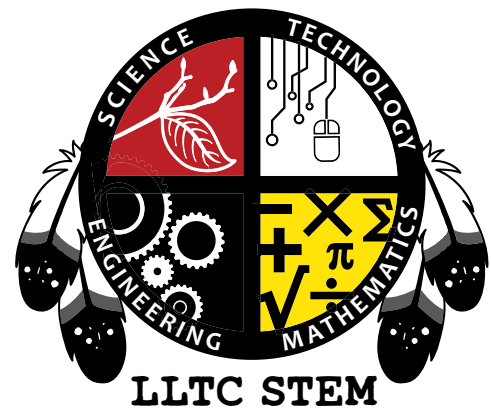
Graduates will be able to:

- Apply all aspects of the scientific process by proposing research questions, formulating hypotheses, collecting, analyzing and reporting data, and disseminating results.
- Present scientific information from Indigenous American and Western views using a variety of sources.
- Solve mathematical problems and test the correct proposed solutions.
- Assess scientific concepts as they apply to everyday life.

What is STEM?

From native geneticists who developed maize, to the southwestern chemists who produced dyes for pottery and weaving, Native Americans were involved in genetics, engineering, architecture, chemistry, pharmacology and physics long before Europeans landed in North America.

S.T.E.M. is the acronym for “*Science, Technology, Engineering and Math*”. The National Science Foundation (NSF) would like to see an increase of students graduating with a STEM based degree. They provide funds to colleges for the development of courses, educational materials and qualified instructors.



STEM at the Leech Lake Tribal College means you enroll in courses and work towards a degree in a STEM related field. These fields are any that fit under the umbrella of science, technology,



engineering and math. Therefore, this degree covers a pretty broad range. Every career is touched by the STEM field in one way or another.

Liberal Education with STEM Emphasis 2017-2019 Program of Study

LLTC Core Requirements- 19 credits			Cr.	Pre-Req	Term	CK List
ANI 100	Introduction to Anishinaabe Studies		3		FA/SP	
EDU 102	Miikana (FYE)		2		FA/SP	
ENGL 101	English Composition I		3		FA/SP	
ITECH 100	Computer Applications I		3		FA/SP	
OJI 101	Speaking Ojibwe I		4		FA/SP	
OJI 102	Speaking Ojibwe II		4	OJI 101	FA/SP	

Category 1: Communications-3 credits			Cr.	Pre-Req	Term	CK List
ENGL 102	English Composition II		3	ENGL 101	FA/SP	
or SPCH 201	Speech and Communications		3	ENGL 101	FA/SP	

Category 2: Critical Thinking (Satisfied by MNTC requirements)

Category 3: Natural Science-7 credits minimum			Cr.	Pre-Req	Term	CK List
Biological Science Options						
BIO 121	General Biology I & Lab		4		Fall	
* or BIO 204	Environmental Science		3			
Physical Science Options						
CHEM 100	Foundations of Chemistry & Lab		4		Fall	
or CHEM 111	General Chemistry I & Lab		4	CHEM 100		
* or GEOL 110	Intro to Geology and Earth Systems		4		Fall	
or PSCI 150	Indigenous Astronomy		3		Spring	

Category 4: Mathematical/ Logical Reasoning- 3 credits			Cr.	Pre-Req	Term	CK List
MATH 155	Advanced College Algebra		3	MATH 150	FA/SP	
or MATH 210	Pre-Calculus		3	MATH 155	Spring	
or MATH 250	Calculus		3	MATH 210		

Category 5: History and Social Sciences- 6 credits			Cr.	Pre-Req	Term	CK List
or HIS 101	U.S. and Indigenous American History, 1830-Present		3			
or HIS 150	History of Leech Lake		3		FA/SP	
or POLSC 225	Treaty Law and Tribal Sovereignty		3		Spring	
or PSY 100	General Psychology		3		FA/SP	
or PSY 140	Developmental Psychology		3			
or PSY 200	Indigenous American Psychology		3		Spring	
or PSY 220	Abnormal Psychology		3	PSY 100		
or SOC 101	Introduction to Sociology		3			



Category 6: Humanities and Arts- 6 credits			Cr.	Pre-Req	Term	CK List
Choose 1 course from below:						
ART 100	Introduction to Traditional & Contemporary Art	3			Fall	
or ART 102	Introduction to Pottery	3				
or ART 107	Drawing I	3				
or ART 108	Sculpture	3				
or ART 109	Watercolor Painting	3				
or ART 110	Acrylic and Oil Painting	3				
or ART 113	Jingle Dress Making	2				
or ART 114	Star Quilt Making	2			Spring	
or ART 116	Introduction to Beadwork	3				
or ART 204	Introduction to Moccasin Making	3	ART 116 or IP			
or MUS 250	History of Anishinaabe Music and Dance	3			Fall	
Choose 1 course from below:						
or ENGL 200	Literature and the Environment	3	ENGL 101			
or ENGL 220	Creative Writing	3	ENGL 101			
or ENGL 250	Contemporary American Indian Literature	3	ENGL 101		Spring	
or ENGL 299	Special Topics in Literature	3	ENGL 102			
or PHIL 200	Indigenous American Philosophy	3			Fall	

Category 7: Human Diversity (Satisfied by LLTC Core ANI 100)

Category 8: Global Perspective (Satisfied by LLTC Core OJI 101)

Category 9: Ethical and Civic Responsibility (Satisfied by LLTC Core ITECH 100)

Category 10: People and the Environment-(Satisfied by BIO 204)		Pre-Req	Term	CK List
or BIO 200	Ethnobiology	3		

STEM Electives 100+ Level: 10 credits			Cr.	Pre-Req	Term	CK List
BIO 121	General Biology I & Lab	4				
BIO 122	General Biology II & Lab	4	BIO 121			
BIO 130	Wildlife Biology & Lab	4	BIO 121			
BIO 140	Ecology	3				
CHEM 100	Foundations of Chemistry & Lab	4				
CHEM 111	General Chemistry I & Lab	4	CHEM 100			
CHEM 112	General Chemistry II & Lab	4	CHEM 111			
FOR 101	Introduction to Forestry	3				
FOR 110	Woodland Plants	4				
FOR 120	Natural Resource Careers	2				
FOR 130	Intro to Field and GIS Skills	2				
* GEOL 110	Intro to Geology and Earth Systems	4			Fall	
ITECH 150	Computer Applications II	3	ITECH 100			



ITECH 190	Intro to Computer Science	3	ITECH 150		
MATH 150	Beginning College Algebra	3			
MATH 155	Advanced College Algebra	3	MATH 150		
MATH 170	Statistics	3			
PSCI 100	Introduction to Physical Science & Lab	4			
PSCI 150	Indigenous Astronomy	3		Spring	

STEM Electives 200+ Level: 6 credits minimum			Cr.	Pre-Req	Term	CK List
ANI 290	Knowledge Bowl Preparation	2			Spring	
BIO 200	Ethno-biology	3				
BIO 202	Human Anatomy & Physiology	4	BIO 121			
* BIO 204	Environmental Science	3				
BIO 294	Science Research Project I	1-3				
BIO 295	Science Research Project II	1-3				
BIO 297	Biology Internship	1				
ESS 220	Introduction to Atmospheric Science	3	MATH 150			
ESS 240	Watershed Research Methods and the Leech Lake Area	4	GEOL 110			
FOR 200	Special Topics	3				
FOR 210	Freshwater Studies	4	BIO 140			
FOR 220	Research - Forest Ecology	2	Inst App.			
FOR 230	Dendrology	3	FOR 101			
FOR 240	Survey and Measurement	2	FOR 130			
FOR 260	GIS Applications	3	FOR 130			
ITECH 205	Computerized Video Production	3	ITECH 150			
ITECH 210	Introduction to Computer Programming	3	MATH 150			
ITECH 225	Advanced Computer Applications	3	ITECH 150			
ITECH 270	Web Page Design	3	ITECH 150			
ITECH 292	Information Technology Internship	1-3				
ITECH 299	Special Topics in Information Technology	1-3				
MATH 210	Pre-Calculus	3	MATH 155			
MATH 215	Trigonometry	3	MATH 155			
MATH 250	Calculus I	3	MATH 150			
		Total =	60 Credits or more			

* Course completes more than one category requirement, but credits may only be counted once.
 Please note that some of the pre-req's may be completed based on competency.



AZHEGIWE BAGWAJAYA'II

She/He goes back to the wilderness.



ASSOCIATE OF SCIENCE, EARTH SYSTEMS SCIENCE

The ESS program focuses study on the geological, biological and chemical nature of our world from an Indigenous perspective.

ESS Classes focus on many of the materials and processes that you see around you every day:

- The **lithosphere** includes the rocks and soil beneath your feet. The ESS program explores geology (*GEOL 110*) and soils (*GEOL 210*) of the Leech Lake area and the processes that operate above and below the surface of our Earth.
- The **hydrosphere** includes the water in wetlands, lakes and streams, underground and in the atmosphere. The ESS program focuses on water quality (*ESS 240*) and aquatic ecosystems (*FOR 210*).
- The **atmosphere** is the envelope of gases surrounding Earth, including the air we breathe. Remarkable processes produce our weather and climate which we study (*ESS 220*) to better understand air quality issues.
- The **biosphere** includes all living things. Through biology and ecology courses, ESS students learn about the intricacies and interconnectedness of our living world.

ESS courses blend physical, chemical and biological science with a place-based focus on the Leech Lake Reservation area, using both Western science and Indigenous American knowledge. We bring experts into the classroom and collaborate with them for research and employment opportunities.

Programmatic Learning Outcomes

Graduates will be able to:

- Students will gain a fundamental knowledge of the individual Earth Systems, Atmosphere, Hydrosphere, Lithosphere, Biosphere, as well as understand how these systems interact.
- Students will be able to systematically collect, organize, and present appropriate sci-



entific data from Western and Indigenous American views using a variety of sources including independent research, written journals and the Internet; assess the validity of the data and interpret it correctly.

- Students will be able to apply the scientific method by formulating a hypothesis; researching the topic; determining appropriate tests; performing tests; collecting, analyzing, and presenting data; and finally proposing new questions about the topic.
- Students will gain a fundamental understanding of the impact that human beings have on these systems in order to solve real world problems.

2017-2019 Program of Study

LLTC Core Requirements- 15 credits			Cr.	Pre-Req	Term	CK List
ANI 100	Introduction to Anishinaabe Studies		3		FA/SP	
EDU 102	Miikana (FYE)		2		FA/SP	
ENGL 101	English Composition I		3		FA/SP	
ITECH 100	Computer Applications I		3		FA/SP	
OJI 101	Speaking Ojibwe I		4		FA/SP	

Category 1: Communications-3 credits			Cr.	Pre-Req	Term	CK List
ENGL 102	English Composition II		3	ENGL 101	FA/SP	
or SPCH 201	Speech and Communications		3	ENGL 101	FA/SP	

ESS Program Requirements: 21 credits			Cr.	Pre-Req	Term	CK List
BIO 121	General Biology I & Lab		4		Fall	
BIO 122	General Biology II & Lab		4	BIO 121	Spring	
BIO 204	Environmental Science		3			
CHEM 100	Foundations in Chemistry		4		Fall	
or CHEM 111	General Chemistry		4	CHEM 100		
ENGL 200	Literature and the Environment		3	ENGL 101		
or ENGL 250	Contemporary American Indian Literature		3	ENGL 101	Spring	
MATH 155	Advanced College Algebra or Higher		3	MATH 150	FA/SP	

ESS Electives: 12 credits			Cr.	Pre-Req	Term	CK List
BIO 140	Ecology		3			
or BIO 200	Ethnobiology		3			
ESS 220	Introduction to Atmospheric Science		3	MATH 150		
ESS 240	Watershed Research Methods and the Leech Lake Area		4	ESS 220 or IP		
FOR 210	Freshwater studies		4	BIO 140		
GEOL 110	Physical Geology and Earth Systems		4			
GEOL 210	Soil and Sediments and the Leech Lake Area		3	GEOL 110		

General Education Electives I- 6 credits			Cr.	Pre-Req	Term	CK List
HIS 101	U.S. and Indigenous American History, 1830-Present		3			
or HIS 150	History of Leech Lake		3		FA/SP	



or POLSC 225	Treaty Law and Tribal Sovereignty	3		Spring	
or PSY 100	General Psychology	3		FA/SP	
or ANI 200	Indigenous American Leadership	3		Spring	
or SOC 200	Indigenous American Women	3		Spring	
or PHIL 200	Indigenous American Philosophy	3		Fall	
or SOC 101	Introduction to Sociology	3			

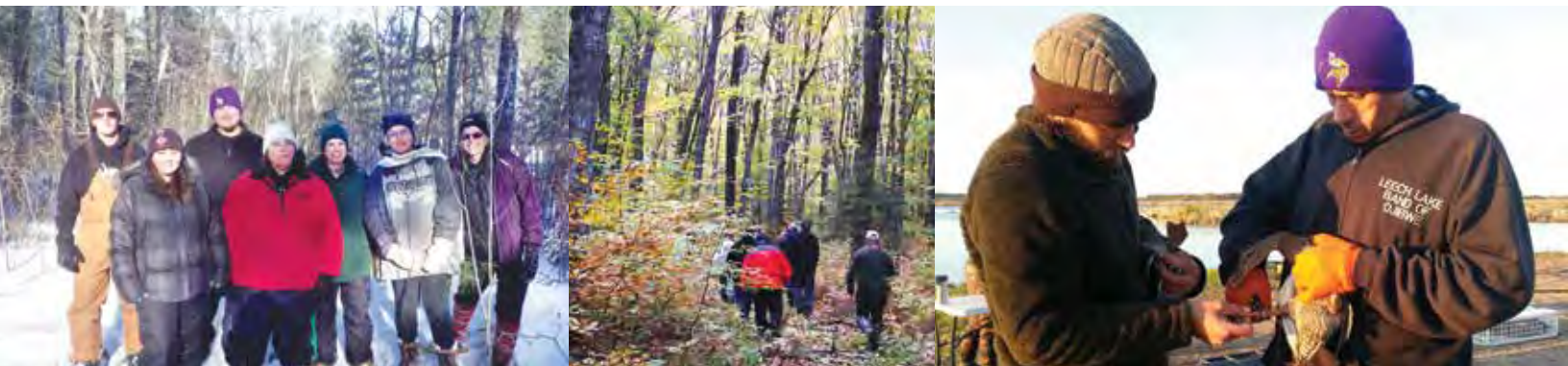
General Education Electives II- 3 credits		Cr.	Pre-Req	Term	CK List
ART XXX	Art Course, <i>See course descriptions for options</i>	3-6		FA/SP	
or MUS 250	History of Anishinaabe Music and Dance	3		Fall	
		Total=	60-63 Credits		

Please note that some of the pre-req's may be completed based on competency.



GIKENIMINDWAA MITIGOOG

Getting to know the trees.



ASSOCIATE OF SCIENCE, FOREST ECOLOGY

The program is designed for students to receive an Associate of Science Degree (A.S.) upon completion of the requirements. Gikenimindwaa Mitigoog translates to 'getting to know the trees,' an apt description for a program which provides graduates with broad based field knowledge of forest lands, the organisms inhabiting them and the systems (soil, water, air) that support them. Students complete course work designed to develop an understanding of natural systems, examine human impacts and interactions, and practice relevant field and technical skills. Students who chose this option are prepared for employment at the technician level upon completion of this degree, or they may choose to continue on into a four year program. The Forest Ecology program is intended for students with an interest in plant communities, water, forestry, wildlife and fisheries and/or recreation management.

The basic requirement for the degree is the completion of 62 semester hours of credits. Of the 62 credits for the A.S., at least 30 must be completed in residency at Leech Lake Tribal College. Therefore, no more than 32 credits may be accepted in transfer from other institutions.

Programmatic Learning Outcomes

Graduates will be able to:

- Understand and be able to apply fundamental concepts of natural systems necessary for success in the field of pursuing a higher degree.
- Gain experience with techniques, skills and tools used in natural resource management.
- Develop ability to identify northern forest plants and plant communities.
- Gain an understanding of the importance of native plants and plant communities within traditional Anishinaabe culture.
- Develop observation, data collection and communication skills.



Forest Ecology 2017-2019 Program of Study

General Education Courses: 31 credits			Cr.	Pre-Req	Term	CK
ANI 100	Introduction to Anishinaabe Studies	3			FA/SP	
BIO 121	General Biology I & Lab	4			FA/SP	
BIO 200	Ethnobiology	3				
or BIO 204	Environmental Science	3				
EDU 102	Miikana (FYE)	2			FA/SP	
ENGL 101	English Composition I	3			FA/SP	
MATH 150	Beginning College Algebra or Higher	3			FA/SP	
MUS 250	History of Anishinaabe Music and Dance	3			Fall	
or ART 100	Introduction to Traditional/Contemporary Art	3			Fall	
OJI 101	Speaking Ojibwe I	4			FA/SP	
POLSC 225	Treaty Law and Tribal Sovereignty	3				
SPCH 201	Speech and Communications	3	ENGL 101			

FE Program Requirements- 30 credits			Cr.	Pre-Req	Term	CK
BIO 140	Eology	3				
BIO 130	Wildlife Biology	3				
FOR 101	Introduction to Forestry	3				
FOR 110	Woodland Plants	3				
FOR 120	Natural Resources Careers	3				
FOR 130	Intro to Field and GIS Skills	3				
FOR 210	Freshwater Studies	3				
FOR 230	Dendrology	3				
FOR 240	Survey and Measurement	3				
FOR 260	GIS Applications	3				

Total=			61 Credits			
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Please note that some of the pre-req's may be completed based on competency.





Beef Soup
Fish Market
Fish Soup
Wild Salads
Wild Salads
Lentils by Thyme
Deer heart
Deer liver
Deer kidney
Deer deer neck
Venison Stew
Venison Roast


Butter Duck
Blueberry Sauce
Broth
Tea
Wild Rice
Corn soup
Northern fish
potatoes
Lom brood
Cold Mushi





COURSE DESCRIPTIONS



 ACCT 110 (3 credits)*Real Life Financial Information*

This course is an introduction to the use of financial information and how to use it as a member of society. Topics include loan and investment opportunities, banking transactions, interest and compound interest related to loans, reservation financial facts and the impact federal taxes have on personal and business financial decisions. *This course is offered during the spring semester.*

ACCT 120 (3 credits)

Payroll Accounting

This course examines the various payroll laws, payroll accounting systems, and the procedures for computing wages and salaries in small, medium, and large firms. Prerequisite: MATH 140 (equivalent or higher) or instructor's permission.

This course is offered during the spring semester.

ACCT 150 (4 credits)

Financial Accounting

This course is an introduction to the fundamentals of accounting. Topics include the accounting cycle, balance sheet, income statement, statement of owner's equity, and statement of cash flows. Prerequisite: MATH 140 (equivalent or higher) or instructor's permission.

This course is offered during the spring semester.

ANI 100 (3 credits) Goal Seven

Introduction to Anishinaabe Studies

This course introduces students to the content areas of the Anishinaabe curriculum. The word Anishinaabe refers to all Indigenous people of North America. Content includes an overview of Anishinaabe culture, history, and philosophy, federal Indian [sic] policy, land and environment, gender roles, and contemporary social issues.

Offered fall/spring.

ANI 150 (2 credits)

Traditional Building Arts

This is a cultural preservation course aimed to provide students with hands on experience in subjects such as shelter building, water, fire, food, clothing,, fishing, hunting traps, snares, tools, stone, tracker, knife, cordage, containers, furniture, lights, hides, pitch and glue, seasonal aids, and health. *Offered Spring.*

ANI 200 (3 credits) Goal Seven

Indigenous American Leadership

This course allows each student to build a personal vision of and commitment to community engagement. Students will explore concepts of "leadership" in society

and in Anishinaabe communities. Through several active learning modules, students will gain confidence through achievement in identifying community concerns, developing and doing service-related projects, and reflecting actively on their experience. Emphasis will be on Anishinaabe philosophies, communication and behavior.

Offered Spring.

ANI 290 (2 credits)

Knowledge Bowl Preparation

Students will study for and answer trivia-type questions, based on information from select books and videos, in preparation for the Knowledge Bowl competition at the annual AIHEC Student Conference. Questions may pertain to various Indigenous cultures, languages, histories, and literatures. The final team will consist of four members, plus an alternate, who will travel to the spring AIHEC Conference. Total commitment and a willingness to engage in extra hours of outside study are essential for making the team. This course may be taken only once for credit. *Offered Spring.*

ANI 298 (3 credits) Goal Six

Nationhood & Gathering of Manoomin

Introduction to the cultural relationship between the Ojibwe people and manoomin (wild rice); an overview of the spiritual, economic, social, and dietary dependence of the Ojibwe on manoomin. Includes an overview of the elements of nationhood: Ojibwe language and culture, history, land base, and governance in relationship to manoomin. This is an experientially-based course in which students will spend time on the lake gathering and parching manoomin. Students will also spend time in the classroom evaluating and interpreting knowledge about wild rice and the Ojibwe people. Learning to think critically is an inherent part of this course.

Offered fall semester. No prerequisite.

Possible that student will have to pay for a ricing license.

ANI 297 (3 credits)

Indigenous American Internship

This course provides an opportunity for the student to build a personal vision of and commitment to community engagement. After identifying a community concern, students will develop and work on a service-related project and actively reflect on their experience. Students will apply classroom theory to hands-on learning experience. Prerequisites: ANI 100, HIS 150, POLSC 225, PHIL 200 or SOC 200 and instructor approval. *Offered Spring.*

ART 100 (3 credits)

Introduction to Traditional/Contemporary Art

This course teaches students an appreciation for, and skills in, both traditional and contemporary art media,



design, beadwork, and techniques of basic drawing, painting, and carving. Students will also engage in critical analysis of art work. Course fee: \$50. *Offered Fall/Spring.*

ART 102 (3 credits) Goal Six

Introduction to Pottery

This course introduces students to traditional and contemporary pottery techniques. Hand-building will be the main focus. Videos and demonstrations will help students understand the methods of various hand-building techniques. All students will be required to produce a project in each of these methods: pinch pot, coil, slab, press mold, and function sculpture. Course fee: \$50.

ART 107 (3 credits) Goal Six

Drawing I

This course is designed for the beginning drawing student. It is a studio course in how to draw and how to appreciate drawing. Its main purpose is to open up the world of drawing and the confidence that is then achieved. It is a learnable skill that takes ambition, interest and discipline. Course fee: \$50.

ART 108 (3 credits) Goal Six

Sculpture

This course is designed for the beginning sculpture student. This course will teach the beginning steps to becoming an accomplished stone carver. Students will learn important values pertaining to sculptural design; the focus will be based on Indigenous American imagery. Course fee: \$50.

ART 109 (3 credits) Goal Six

Watercolor Painting

This course teaches watercolor techniques and fundamentals. Students will also learn some basic drawing skills which are necessary for the course. Emphasis will be on landscape and contemporary Indigenous American subjects. Course fee: \$50.

ART 110 (3 credits) Goal Six

Acrylic and Oil Painting

This course will provide a foundation in painting. Students will learn basic fundamentals, as well as technical skills. Creativity and composition, along with the study of traditional painting, will be strongly emphasized. Students will also learn of the contributions of great Indigenous American painters who paved the way for painting enthusiasts of the 20th century. Course fee: \$50.

ART 113 (3 credits) Goal Six

Jingle Dress

This course will teach traditional jingle dress making. Students will learn the history of the jingle dress along with

technical and traditional methods to making a jingle dress. Course fee: \$50. Sewing Experience recommended.

ART 114 (3 credits) Goal Six

Star Quilt Making

This course provides the foundation for making a star quilt. The course will teach traditional knowledge and technical skills required to complete a star quilt. Course fee: \$50. Sewing experience recommended. *Offered Spring.*

ART 116 (3 credits) Goal Six

Introduction to Beadwork

This is a beginning course teaching the basics to becoming a successful beadwork artist. Traditional appliqué will be the focus along with other beadwork techniques and hand sewing methods. Course fee: \$50.

ART 204 (3 credits) Goal Six

Moccasin Making

This course introduces students to the traditional practice and history of Ojibwe-style puckered, round-toe moccasin making. Students will have an opportunity to work with smoke-tanned moose hide (a traditional material), with a selection of seed beads. They will learn the traditional practice of designing an Ojibwe floral pattern, as well as appliqué stitch beadwork and hand-stitching of the moccasin. Documentary notes and diagrams of each stage of the process will be required. Prerequisite: ART 116 or instructor approval. Course fee: \$50.

ART 207 (3 credits) Goal Six

Drawing II

This course will focus on increasing the student's knowledge of drawing techniques and principles. Students will have opportunity to pursue their own individual drawing interests. Students will begin working with thematic drawings and experimental techniques in order to communicate personal solutions to given assignments. Prerequisite: ART 107. Course fee: \$50.

ART 208 (3 credits) Goal Six

Sculpture II

This course focuses on sculptural intuition and technical skills. Students will have the opportunity to explore and develop their interest in sculpture. Prerequisite: Art 108. Course fee: \$50.

ART 299 (3 credits) Goal Six

Advanced Art Special Topics

This course is designed for the serious art student. This course will enable art students to further their interests and skills in one or more of any art medium. This course will require a certain amount of independent study and



discipline to achieve the greatest reward. Prerequisite: Any ART course. Course fee: \$50.

B BIO 104 (2 credits) *Science Bowl Preparation*

This course prepares students to participate in jeopardy-style competitions in preparation for the Science Bowl competition at the annual AIHEC Student Conference. Questions will pertain to general science, as well as the following specific sciences: biology, physics, chemistry, math, astronomy, and earth science. The final team will consist of three members, plus an alternate, who will travel to the spring AIHEC Conference. Total commitment and a willingness to engage in outside study are essential for making the team.

BIO 121 (4 credits) Goal Three *General Biology I*

This course is an introduction to the structure and function of living systems, focusing on unifying biological principles such as the scientific method, cell theory, cell structure and function, genetics and inheritance, and evolution. Lecture and laboratory. *Offered in Fall.*

BIO 122 (4 credits) Goal Three *General Biology II*

This course is an introduction to animal and plant biology, including traditional herbs and plants used by the Anishinaabe people. Emphasis of this course is on studies from a whole system perspective. It includes principles of biodiversity and ecology and their relationship to humans. Both Indigenous and Western scientific views will be explored. Lecture and laboratory. *Offered in Spring.*

BIO 125 (3 credits) *Wildlife Management*

This course is an introduction to wildlife management practices of wildlife species within the bio-region of Leech Lake Reservation and Northern Minnesota. Stresses the cultural significance of animal life and compares different understandings and economic practices of wildlife management expressed through modern wildlife management and tribal practices.

BIO 130 (4 credits) *Wildlife Biology*

This course encompasses the whole spectrum of wild creatures and how they interrelate to each other and their environment which affect them. The cultural significance of animals to Indigenous peoples will also be addressed. Lecture and laboratory. Prerequisite: BIO 121. *Offered in Fall.*

BIO 200 (3 credits) Goal Ten *Ethnobiology*

This course examines two worldviews of understanding the natural world: Western scientific analysis and the Anishinaabe perspective. Laboratory and empirical analysis will be integrated with cultural values, traditions, and techniques to deliver a holistic and intimate knowledge of the natural world. This course will explore the cycles of the natural world and how all living things are related and maintain balance in their respective communities. *Offered in Fall.*

BIO 202 (4 credits) *Human Anatomy & Physiology*

This course will examine the structure, function, and development of the human body. Lecture and laboratory. Prerequisite: BIO 121.

BIO 204 (3 credits) Goal Three *Intro to Environmental Science*

This course introduces biological, ecological, chemical, physical, and social principles underlying environmental issues. Special emphasis will be placed on Indigenous values pertaining to the environment, and to the effects of modern technology on the environment. Examination of the impacts of human activities and the technological options for environmental protection are researched. *Offered Spring.*

BIO 210 (4 credits) Goal Three *Botany I: Plant Form and Function*

This course will focus on the anatomy and physiology of plants, fungi, and mosses with an emphasis on plant growth and development, photosynthesis, respiration, nutrition and reproduction. Flora of the bioregion of Leech Lake and Northern Minnesota will be discussed along with the Anishinaabe understanding of plants and how they interrelate culturally to the people of Leech Lake.

BIO 212 (3 credits) Goal Three *Ecology*

This course examines relationship between living and non-living things that make up the natural world. Includes natural biochemical processes, interaction between plants and animals, predator-prey relationships, and seasonal cycles. Pre-requisite: Bio 121/122. *Offered in Spring.*

BIO 285 (3 credit) *Remote Sensing*

This course is an introduction to Remote Sensing principles and interpretation through the use of satellite imagery. Students will use Remote Sensing techniques to study the Leech Lake area. Interpretation and significance of images will be discussed.



BIO 291 (3 credits) Goal Three*Indigenous Science*

This course helps students develop a dualistic understanding, both cultural and Western scientific, of the natural world. A study of the ecological phenomenon or natural processes reflected in many Anishinaabe traditions and ceremonies. Cultural values, integrated with science, will allow students to critically analyze, from an evolved indigenous world view, contemporary environmental problems such as deforestation, ozone depletion, genetic engineering, climate change, and biodiversity.

BIO 298 (1- 3 credits)*Science Research Project*

This course gives students the opportunity to explore and work on scientific research either locally or abroad. Students will be exposed to the scientific method as defined and accepted within the scientific community. Progress reports and a final report are required for completion. Research project and time frame are arranged by science faculty. Instructor approval is required for enrollment in this course. Arranged by faculty.

BIO 297 (1 credit)*Biology Internship*

This course gives students the opportunity to work in government or private industrial scientific research programs, either locally or abroad. Progress reports and final report required for completion. Arranged by faculty.

BLTD 100 (1 credit)*Construction Codes*

This course will introduce students to the history and fundamentals of building codes and their legal ramifications. Students will be guided towards the many types and uses of building codes as they pertain to the residential construction industry on and off the reservation. *Offered in Spring*

BLTD 110 (2 credits)*Blueprint Reading and Construction Estimating*

The primary focus of this course is to develop students with technical and analytical skills through visualizing blueprints. Skills will be acquired to read and estimate materials accurately from blueprints. The curriculum teaches interpretations from on-site and off-site projects. Additional skills to prepare working drawings and specifications will be introduced. The course stresses quantity take-off and pricing policies, and applications of estimating techniques. It also includes demonstrations and the use of estimating software as well as the development of a database for use in estimating. An overall objective of the course is to provide effective education and appropriate training to students and prepare them to enter the construction profession. *Offered in Spring.*

BLTD 112 (2 Credits)*Construction Estimating*

This course covers the process, techniques and mathematical equations used in materials cost and quantity estimating building projects.

BLTD 114 (2 credits)*Construction Safety*

The main objective of this course is to provide training on the recognition, avoidance, abatement, and prevention of safety and health hazards in workplaces associated with the construction industry. Emphasis is placed on the recognition, evaluation and control of safety hazards, particularly as they relate to the Occupation Safety and Health (OSH) Act of 1970 and OSHA. *Offered in Fall.*

BUS 100 (3 credits)*Introduction to Business*

This course will be an introduction to the internal and external business environment, organization and operations, the business functions of marketing, financial and human resource management with an emphasis on social responsibility, and ethics. This course is recommended prior to taking other business courses. *Offered in Fall.*

BUS 160 (3 credits)*Human Resource Management*

This course explores human resource management functions: principles and practices in selection, staffing, wage and salary administration, training, motivating, collective bargaining, and human resource development. Prerequisite: BUS 100 recommended. *This course is offered during the fall semester.*

BUS 190 (3 credits)*Principles of Marketing*

This course focuses on key marketing concepts and terminology, emerging markets and awareness of the diverse and cultural issues in marketing, and strategies/best practices engaged in response to socio/cultural changes in the domestic and international marketplace. Prerequisite: BUS 100. *This course is offered during the fall semester.*

BUS 230 (3 credits)*Management/Leadership*

This course is an overview of the principal functions of management, a study of effective leadership and successful supervisory principles and the difference between management and leadership. Topics covered include critical-thinking for solving management dilemmas. Prerequisite: BUS 100. *This course is offered during the spring semester.*



BUS 250 (3 credits)*Business Law*

This course is a study of the principles of law in the American legal system. Topics include: contracts, sales, negotiable instruments, bank deposits and collections, secured transactions, and bankruptcy. This course is designed to help students understand the legal system and apply it to the business world. Prerequisite: BUS 100. *This course is offered during the spring semester.*

BUS 260 (3 credits)*Business Communications*

This course assists students in gaining an understanding of the communication process, writing and organization methods, and oral aspects of communication in business. Emphasis is also placed on new technology in business communications. Prerequisite: ENG 101 and BUS 100. *This course is offered during the fall semester.*

BUS 270 (3 credits)*Business Entrepreneurship*

This is a participatory class, which involves a lot of brainstorming and critical discussion of entrepreneurial ideas, plans, and vision. Speakers from the community – representing both for-profit and not-for-profit enterprises – will present their experiences and insights on a regular basis. Prerequisites: BUS 100, BUS 190 and ENGL 101. *Offered Spring. Carpentry students are exempt from taking BUS 100 and BUS 190*

BUS 299 (3 credits)*Special Topics in Business*

Guided study of emerging business-related issues or that reflects student, reservation, or community interests. Prerequisites: Complete of 100-level Business Management core course and Business Management Program approval. *This course may be offered during the fall and/or spring semesters.*

BUS 297 (3 credits)*Business Internship*

This course is an opportunity for the student to apply classroom theory to hands-on learning experiences. Prerequisite: BUS 100. *This course may be offered during the fall and/or spring semesters.*

CARP 110 (2 credits)*Framing Principles*

This course is designed to provide a general understanding of the principles of floor, wall, stair and roof framing.

CARP 112 (2 credits)*Welding I*

An introduction to and practice in the principles, safety aspects and correct operations of arc welding and oxy-acetylene cutting. *Offered in Fall*

CARP 114 (5 credits)*Framing Sustainable Design*

This course is designed to provide a general understanding of the principles of floor, wall, stair and roof framing and the basic mathematical topics as they are applied in a technical program. It includes a review of basic mathematical operations, and continues with the development of algebraic and trigonometric skills in a technical setting. Most concepts will be applied through course specific problems. *Offered in Fall*

CARP 116 (3 Credits)*Footings & Foundations*

Students will prepare materials, calculate the cost for a building site, and lay out a site with a transit, locating lines and corners. Students calculate the amount of concrete needed for footing and foundation walls and construct different types of foundations and forms. *Offered in Fall*

CARP 118 (4 Credits)*Interior Environmental Design*

This course provides hands-on experience in the application and materials of drywall, trim and cabinetry. Prerequisite: CARP 114.

CARP 120 (4 Credits)*Interior and Exterior Finishes*

This course is designed to facilitate student understanding of the finishing phase of a structure. Students become familiar with the exterior and interior finishing of a structure. Topics include career opportunities, safety, windows, doors, siding, roof finishes, insulation, wall coverings and storage. This course provides learning experience through the application of materials and techniques used in residential construction. *Offered in Spring.*

CARP 122 (2 Credits)*Roofing Design*

This course continues to expand on the student's proficiency in the application and knowledge of exterior finishes including windows, doors, and roofing.

CARP 124 (2 Credits)*Commercial Design & Installation Techniques*

This course provides the student with the opportunity to apply the knowledge and techniques necessary to select materials and construct decks, railings and stairs according to a predetermined plan. Prerequisite: CARP 120



CARP 200 (2 credits)

Weatherization Applications

Building homes that are well protected from the weather should be a priority for any building professional. The majority of problems stem from improper procedures and workmanship, but often the problem is found in the design of a home. This course will explore factors that contribute to exterior shell failure, and identify practical solutions that will preserve the integrity of the building envelope. Even as technological innovation creates new construction possibilities, incorporating energy-efficiency into building projects can not only provide a better quality of life, but also protect the environment. A comprehensive approach to resource and energy efficiency is the best method to achieve a resource and energy efficient building. This course will help professionals identify important considerations and then apply those principles to a specific project. *Offered in Fall*

CARP 206 (2 credits)

Advanced Framing Applications

The course aims at providing a fundamental understanding of the physics related to buildings and to propose an overview of the various issues that have to be adequately combined to offer the occupants a physical, functional and psychological well-being. Students will be guided through the different components, constraints and systems of a work of architecture. These will be examined both independently and in the manner in which they interact and affect one another. Students will apply calculations in pure science and mathematics to the realm of building technology. Design alternatives and issues will be presented from various standpoints, including response to climate, construction methods and materials, heat and air flow, thermal comfort and insulation, lighting and acoustics. *Offered in Fall*.

CARP 207 (2 credits)

Building Science

This course aims to provide a fundamental understanding of the physics related to buildings and to propose an overview of the various issues that have to be adequately combined to offer the occupants physical, functional, and psychological well-being. Students will apply calculations in pure science and mathematics to the realm of building technology.

CARP 210 (1 credit)

2D Layout for Shop and Construction

This course is designed to introduce students to Sketch-Up imaging technology for design. SketchUp tools and methods are used to construct objects, modify objects, apply materials, apply special effects, and create 3D camera views. *Offered in Fall*.

CARP 212 (2 credits)

Landscape Construction

In this course students will learn how to demonstrate the ability to read and interpret landscape plans and details. Conduct site analysis and assessment and apply practical solutions based on current laws and industry standards. Topographic applications such as swales, retaining walls, and water catchment will be studied. Students practice problem-solving skills in real-world situations and gain an appreciation of how landscape issues effect people of all economic levels.

CARP 216 (2 credits)

Woodworking

This course is intended for students who enjoy designing and constructing useful wood products. Instruction stresses the development of knowledge and skills needed for product design and production, recognizing appropriate safety and workmanship standards, and the application of knowledge regarding woodworking tools, materials, and process. This class emphasizes teamwork, career awareness, decision-making, and time management skills. *Offered in Fall*

CARP 297 (1 credit)

Carpentry Internship

This course is an opportunity for the student to apply classroom theory to hands-on learning experiences. Prerequisite: Completion of 100-level Integrated Residential Builder core courses, and instructor approval. This course may be offered during the fall and/or spring semesters.

CHEM 100 (4 credits) Goal Three

Foundations of Chemistry

This course will cover the basic principles and concepts of inorganic, organic, and biological chemistry. Topics will include states of matter, measurements, elements, atoms and the periodic table, chemical bonding, chemical equations, gases, liquids and solids, energy and equilibrium reaction, acid-base and oxidation reduction. Lecture and laboratory. *Offered in Fall*

CHEM 111 (4 credits) Goal Three

General Chemistry I

This course is an in-depth survey of inorganic chemistry. This course stresses the concepts and language of chemistry, including periodic properties, reactions, mathematics and algebraic manipulation of existing formulas, physical chemistry, and environmental issues dealing with the topic of atmospheric gases and surface groundwater. Lecture and laboratory. Prerequisite: CHEM 100 or equivalent. *Offered in Fall*



CHEM 112 (4 credits) Goal Three

General Chemistry II

This course is an advanced study of inorganic chemistry. Topics include in-depth mathematical formulas of chemistry and their manipulation, acid-base chemistry, complex reactions and their prediction, thermodynamics, nuclear chemistry, metallurgy, and an introduction to organic chemistry. Lecture and laboratory Prerequisite: CHEM 100 or equivalent.

ECE 180 (3 credits)

Child Growth and Development

This course introduces students to the fundamental psychological principles of children's physical, social, emotional, and intellectual growth and development, and how these principles can be applied to facilitate learning. Multicultural and traditional Anishinaabe viewpoints will be explored. Students will begin to develop an individual portfolio of educational materials. *Offered in Fall*

ECE 201 (3 credits)

The Exceptional Child: Children with Special Needs

This course explores the development of children with special needs and focuses on integrating children with special needs into child care and educational settings. Prerequisite: ECE 180. *Offered in Spring.*

ECE 210 (3 credits) *Offered in Spring.*

Creative Activities for Children

This course explores the principles and characteristics of creative teaching. Students will learn to apply creative methodology to all curriculum areas. Multiple intelligence theories will be explored. The development of culturally relevant and multi-cultural materials will be emphasized. Prerequisite: ECE 180.

ECE 220 (3 credits)

Relations and Management in Child Development

This course explores and develops skills in relations with young children, parents, and co-workers anti-bias techniques for building and maintaining an encouraging classroom are addressed. Prerequisite: ECE 180. *Offered in Fall.*

ECE 222 (3 credits)

Infant and Toddler Development

This course provides an overview of infant/toddler learning experiences in home or center-based settings through the arrangement of physical setting, provision of materials, construction of curriculum, and implementation of learning experiences. Learners will integrate knowledge of developmental needs, developmentally appropriate envi-

ronments, and effective care-giving and teaching methods in an approved lab setting. *Offered in Spring.*

ECE 240 (3 credits)

Children, Families and Communities

This course is designed to increase the student's capacity to build positive relationships with parents and other family members. A variety of issues will be addressed, such as providing a culturally sensitive environment, parent involvement in the classroom, emotional /social development of young children, communication with difficult families, and working with diverse communities. Students will be responsible for developing an event appropriate for families with young children. Prerequisite: ECE 220. *Offered in Fall.*

ECE 299 (6 credits)

CDA Transfer Equivalence/ Special Topics

In order to register for this course, students must have a valid CDA. This will enable students to receive credit for ECE 180 and ECE 220. With the completion of this course, the student will also be given credit for ECE 299. Prerequisite: Valid CDA Certificate on file with Registrar.

ECE 297 (4 credits)

Preschool Practicum

This course provides the student with field experience in an early childhood setting. Observations and evaluations will be conducted by the tribal college education faculty. Student presentations will be observed. Application of theories and techniques discussed in the classroom will be emphasized. Individual student portfolios will be completed. Prerequisite: General education requirements and instructor approval.

EDU 100 (1 credit)

Critical Thinking and Problem Solving

In this course students will learn quality control in decision making, why intuitive decision making is not effective, how thinking and reasoning processes operate, natural barriers to sound reasoning, where to look for bias and assumptions in problem analysis, analytical techniques for comparing alternative solutions, structure, standards, and ethics of critical thinking, inputs and implications of thought processes, how to control and evaluate one's thought processes, how to reason effectively and consistently, and problem analysis best practices: using decision time most effectively, understanding problems from multiple perspectives, techniques for structuring the comparison of alternatives, formulating creative solutions, and analytical decision analysis techniques such as sequencing, sorting, time lines, and matrices. *Offered in Fall.*



EDU 102 (2 credits)

Miikana

This course is designed to help students negotiate the complexities of college; from selecting classes and completing degree requirements to finding one's way through the financial aid maze. Study skills such as effective reading strategies, note-taking, and time management will be taught. The course will infuse English language writing and reading skills by incorporating best practices throughout the course. Opportunities for students to apply these skills in their current courses and texts will be provided. In addition, students will have the opportunity to explore Anishinaabe values and how these values apply to their own lives. Miikana is required in a student's first or second semester (exceptions may be made for transfer students with approval of the Dean of Academics). *Offered Fall & Spring*

EDU 140 (3 credits)

Professional Skills Development

This course will cover skills necessary to succeed in college, including, but not limited to, study skills, learning styles, and money management. In addition, this course provides principles of effective writing for career and technical fields and experience in writing, speaking and communicating. This course is meant to reinforce student confidence and self-motivation in the academic setting. It will also provide the student with the chance to express his/her sense of indigenous identity. *Offered in Spring.*

ELEC 110 (3 credits)

Introduction to Electrical Circuit Theory

The course has been designed to introduce fundamental principles of circuit theory commonly used in residential applications. Techniques and principles of electrical circuit analysis including basic concepts such as voltage, current, resistance, impedance, Ohm's and Kirchoff's law; basic electric circuit analysis techniques, resistive circuits, wire sizes and how they relate to the National Electrical Code.

ELEC 114 (2 Credits)

Materials and Codes

This course covers the materials used in construction electricity and an understanding of the use of the National Electrical Code book and of how it applies to electrical applications on the job.

ELEC 116 (2 Credits)

Introduction to Residential Wiring

This course covers a basic understanding of and the applied skills for residential wiring in compliance with the National Electrical Code.

ELEC 118 (4 credits)

Electrical Circuit Theory

This course provides the student with an understanding of complex RLC circuits, single-phase and three-phase transformer connections and calculations.

ELEC 120 (4 Credits)

Residential Wiring – National Electric Code

This course covers branch and general circuits in residences. Topics include the calculation of various electrical cables, special and general outlets, calculations for service-entrance equipment, ground-fault circuit interrupters. Lab is included for practical application and skills building.

ELEC 122 (3 Credits)

Electrical Services

This course covers requirements and installation of service entrance equipment. Topics included are service materials, installation procedures, meters, service and conduit sizes, panel types, bonding, grounding and over current protection.

ELEC 124 (2 Credits)

Electrical Blueprints

This course covers the construction and design of residential buildings. Topics include terminology, different types of plans, symbols, specifications, and the requirements for installing electrical cables, special, and general outlets, based on the National Electrical Code.

ELEC 208 (4 credits)

Commercial Wiring I

This course introduces the student to the commercial aspect of the wiring industry, what the industry considers as commercial jobs and the basic knowledge needed to do commercial work. The math, material identification, tools used, and code references will be presented to the student.

ELEC 208L (8 credits)

Commercial Wiring I Lab

This course allows the student to utilize the tools, materials, and techniques used in commercial work. This class will be making field trips to commercial job sites to see how using these skills results in completed projects.

ELEC 210 (4 credits)

Industrial Wiring I

This course introduces the student to the industrial construction field. During the semester the student will learn to use the tools, materials, and techniques used in the industrial construction field. Field trips will be used to show students the results of the training they receive.



ELEC 210L (8 credits)
Industrial Wiring I Lab

This course teaches the student to use the tools, materials, and techniques to build industrial electrical systems in the class room. Field trips will be used to show the student how the systems are used on the actual projects in the field. Control systems will be demonstrated during the semester.

ELEC 212 (2 credits)
Electrical Blueprints II

This course introduces the use of blueprints associated with the commercial construction field. Students will utilize prints and specification books from actual projects to see how commercial jobs are completed using a blueprint.

ELEC 216 (3 credits)
Motors and Controls

This course introduces the fundamental concepts, principles, and control devices involved in industrial motor control. Emphasis is placed on developing a theoretical foundation of industrial motor control devices. Topics include principles of motor control, control devices, symbols and schematic diagrams, and Article 430 N.E.C.

ENER 150 (3 credits)
Intro to Renewable Energy

This course provides an introduction to energy systems and renewable energy resources with a scientific examination of the energy field and an emphasis on alternate energy sources and their technology and application. It explores society's present needs and future energy demands, examines conventional energy sources and systems, including fossil fuels and nuclear energy, and then focuses on alternate, renewable energy sources such as solar, biomass (conversions), wind power, geothermal, and hydro. Energy conservation methods will be emphasized.

ENER 160 (3 credits)
Sustainable Landscape and Site Planning

This course introduces concepts of land use development with respect to the environmental impacts of project construction and post-construction performance. Also introduced are factors to consider when proposing human interventions in the ecology of the earth, including climatic parameters of sun, wind, and water. Topics such as intentional community design, permaculture methods for food and shelter design will be addressed. Students will be guided in developing competence in solar site assessments.

ENER 200 (3 credits)
Residential Mechanical Systems

This course introduces the techniques of assessing and maintaining the quality of the indoor air environment within residential heating/cooling systems. Principles and concepts of conventional residential heating and cooling system design, equipment selection, psychometrics, equipment selection and building codes will be discussed. Topics such as alternative mechanical systems, humidity control, and building and duct pressures will be examined.

ENER 210 (3 credits)
Intro to Photovoltaic Theory

Introduce students to the fundamentals of solar energy, photovoltaic (PV) systems, including design, installation, maintenance, and best practices. Guide students in understanding the functions of the components and the designs of different PV systems. Enhance skills applying the results of shading analysis and projected system outputs to size PV systems. Students will apply their understanding of PV theory and site analysis in completing a system installation. Students should have knowledge of solar site assessments and electricity (including Ohm's Law) prior to taking this course.

ENGL 096 (3 credits)
Writing and Reading Skills

This course emphasizes integration of skills and strategies for academic reading and writing, including comprehension, vocabulary, fluency, sentence structure, and writing coherent paragraphs. Note: This course does not count toward graduation and is not transferable to another institution. *Offered in Fall.*

ENGL 101 (3 credits)
English Composition I

This course reviews the basics of sentence construction and essay development; emphasizes style, organization, coherence, and persuasion in written discourse; and provides extensive practice in communication skills: reading, critical thinking, speaking, listening, and writing. College placement test required. *Offered Fall & Spring*

ENGL 102 (3 credits) Goal One
English Composition

This course reviews components of ENGL 101 and refines general composition skills; emphasizes expository and argumentative writing, including researched, documented essays; and provides a study of research methods and sources, with emphasis on analytical reading. Prerequisite: ENGL 101. *Offered Fall & Spring*



ENGL 200 (3 credits) Goal Six

Literature and the Environment

This course explores the concept of "environment" through different literary modes and examines the historical development of the environmentalist movement in North America. Emphasis will be placed upon reading, critical thinking, and writing in MLA style format.

Prerequisites: ENGL 101.

ENGL 220 (3 credits) Goal Six

Creative Writing

This course is an introduction to the study of the forms and styles of poetry, fiction, creative nonfiction, and other genres, with practice in a workshop format. Prerequisite: ENGL 101.

ENGL 250 (3 credits) Goal Six

Contemporary Indigenous American Literature

This course includes a critical study of selected works of contemporary Indigenous American writers, including novels, short stories, autobiographies, plays, poetry, and speeches.

Prerequisites: ENGL 101. *Offered in Spring.*

ENGL 299 (3 credits)

Special Topics in Literature

This course is an intensive study of a particular genre of literature such as autobiography, science fiction, the novel, poetry, short story, and travel narrative. Prerequisites: ENGL 102.

ESS 220 (3 credits) *Offered in Fall*

Introduction to Atmospheric Science

The course explores meteorological processes and phenomena and how changes in the atmosphere affect human societies, as well as the interactions between these two spheres. The fundamentals of meteorology, energy balances, and weather patterns will inform our perspectives on climate change, particularly as it affects Indigenous peoples. Prerequisites: Math 150

ESS 240 (4 credits)

Watershed Research Methods and the Leech Lake Area

Application of quantitative and qualitative research methods to examine our local water resources, land use, and air quality. Students will learn field and laboratory methods, design and implement a research project including hypothesis testing and data analysis, and prepare a report on their work. Prerequisites: GEOL110 and ESS 220, or consent of instructor. *Offered in Spring*

FOR 101 (3 credits)

Introduction to Forestry

This course provides an overview of forest systems around the world, with special emphasis placed on the forests of northern Minnesota. The material presented introduces forest management, traditional and non-timber forest uses and forest ecosystems. Students are expected to participate in field trips to view forest management practices and uses of the forest. *Offered in Spring.* No prerequisites.

FOR 110 (4 credits)

Woodland Plants

This course incorporates ecology, Ojibwemowin, and art to study fifty woodland plant species. Students will learn to identify plant families by their characteristics, recognize scientific and Ojibwe names for local plants, and visit various woodland ecosystems. *Offered in Fall.*

FOR 120 (2 credits)

Natural Resource Careers

This course is held once a week (2 hour block) and explores the various career paths a student might take with a Forest Ecology degree. The class includes guest speakers from various resource positions in the area. Students will explore their strengths and research 2-3 career pathways. *Offered in Fall.* No prerequisites.

FOR 130 (2 credits)

Introduction to Field and GIS Skills

This course provides field experience in map reading, compass use, GPS and map use, along with an introduction to GIS skills. Students will be outdoors and in computer labs and need to come prepared based upon the schedule. *Offered in Spring.* No prerequisites.

FOR 299 (3 credits)

Special Topics in Forestry

This course provides an opportunity to explore new and relevant forest resource topics. Varies from semester to semester, offered occasionally.

FOR 210 (4 credits)

Freshwater Studies

This course examines the connections between healthy forests and healthy waters. A strong emphasis is placed on the ecology of lake systems, particularly in Northern Minnesota. Nutrient cycling, aquatic food webs and an introduction to species interactions are covered. Two local field trips are required as part of this course. *Offered in Fall.* Prerequisite: BIO 140.



FOR 298 (2 credits)

Research – Forest Ecology

This course provides students with hands-on research experience, either on-campus or off-campus on an aspect of forest health. Instructor approval required for enrollment.

FOR 230 (3 credits)

Dendrology

This course focuses on the study of important tree species including identification, geographic range, habitat, importance, and distinguishing characteristics. Students will develop a portfolio of tree species for their final project. Field identification is required in both leaf on and leaf off conditions for local tree species and selected shrubs. *Offered in Spring.* Prerequisite: FOR 101 or can be taken simultaneously.

FOR 240 (2 credits)


Survey and Measurement

This course provides students practice in survey methods and measurements typically conducted in natural resource fields. Students will identify projects with the help of the instructor and collect data, utilize spreadsheets, analyze data and provide summary reports. Recommend that MATH 150 be taken prior to this course. This course should be taken in conjunction with FOR260 – GIS Applications. Prerequisite: FOR130. *Offered in Fall.*

FOR 260 (3 credits)

GIS Applications

This course introduces Geographic Information Systems concepts and ideas. This course involves learning how to use ESRI's GIS software ArcMap and ArcCatalog. Basic tools and concepts will be covered with projects geared towards basic maps and basic GIS concepts. Should be taken in conjunction with FOR 240 – Survey and Measurement. *Offered spring semester.* Prerequisite: FOR 130.

 GEOG 200 (3 credits) Goal Five

Cultural Geography

This course is an exploration of the interaction of the earth, plants, animals, and people as they create the web of life. Examination of the cultural meanings of place as developed by indigenous peoples and how those ideas compare to and conflict with modern ideas of place.

GEOL 110 (4 credits) Goal Three

Physical Geology and Earth Systems

This course is an introduction to the study of the composition and dynamics of the earth from an atomic scale to a global perspective. Emphasis will be placed on systems

and cycles relevant to Minnesota's geology. Lecture and laboratory.

GEOL 210 (3 credits)

Soils, Sediments and the Leech Lake Area

This course introduces the processes and properties of soils and sediments, including physical, chemical and biological characteristics. Field techniques and laboratory analyses will explore sediments and soils from the Leech Lake area. Prerequisites: GEOL 110, or consent of the instructor. *Offered in Spring.*

 HIS 101 (3 credits) Goal Five

U.S. and Indigenous American History, 1830-Present

This course surveys the history of the Indigenous American from the year 1830 to the present day. It provides an overview of the major themes and trends in Indian history, supplemented by case studies from a number of regions and readings that illuminate particular issues. The overall context of the course is the expansion of the U.S., the "Indian policies" adopted by the U.S. government, but the primary focus is the historical experience of Indian peoples and their struggles to retain the cultures and autonomy while adapting to great changes in the conditions of their lives.

HIS 150 (3 credits) Goal Five

History of Leech Lake

This course is a survey of Leech Lake history from an Indigenous perspective; includes history of the land and people of pre-contact America; the interaction of Americans, Europeans, and indigenous peoples during exploration and colonization; development of Ojibwe culture and philosophy; founding of the reservation and the Minnesota Chippewa Tribe, Inc.; and growth of cultural tensions. Includes discussions of the increasingly diverse make-up of the Leech Lake population and communities, and emphasizes the development of analytical skills focusing on reading, oral presentation, and writing. *Offered Fall & Spring.*

HLTH 240 (3 credits)

Contemporary Health Issues

This course studies the major health issues confronting adults today. It emphasizes examination of lifestyle choices to prevent disease and promote health, and also includes exploration of health issues from both the traditional medical model and the holistic model.



ITECH 100 (3 credits) Goal Nine*Computer Applications I*

This course will cover the basic use of computers. Topics include the history and impact of computers, computer systems, and an introduction to hardware and software applications, such as operating systems, e-mail, internet browsers, search engines, word processing, spreadsheets, databases, and presentation graphics. *Offered Fall & Spring.*

ITECH 150 (3 credits)*Computer Applications II*

This course focuses on expanding the student's understanding, use, and integration of office productivity tools and integrating those tools into projects. Emphasis will be on word processing, spreadsheets, databases, and presentation graphics software, but may also include other relevant topics. Prerequisite: ITECH 100 or equivalent.

ITECH 190 (3 credits)*Introduction to Computer Science*

This course provides a broad introduction to computer science. Topics include programming, hardware, artificial intelligence, and the history and impact of computers. Prerequisite: ITECH 150.

ITECH 205 (3 credits)*Computerized Video Production*

This course covers the use of multimedia software in presenting information. Students will create presentations combining text, graphics, sound, animation, and video. A variety of software packages, hardware devices, plug-ins, browsers, and internet services may be examined. Additional lab time is required. Prerequisite: ITECH 100 or 150, or instructor's permission.

ITECH 210 (3 credits)*Introduction to Computer Programming*

This course is intended to give an introduction to programming (algorithmic problem solving), using two programming languages. Topics include object-oriented, functional, and user interactive programming. Students will acquire skills in designing, writing, and debugging programs. Prerequisite: Math 150 with a grade of C or better, ITECH 150 or instructor's approval.

ITECH 225 (3 credits)*Advanced Computer Applications*

This course will focus on expanding the student's understanding, use, and integration of office productivity tools, by integrating them into complex projects. Emphasis will be on word processing, spreadsheets, databases, and

presentation graphics software, but may also include other relevant topics. Prerequisite: ITECH 150.

ITECH 270 (3 credits)*Web Page Design*

This course introduces the student to the principles of website design using core technologies and fundamental Extensible Hyper Text Markup Language (XHTML). It includes development and use of hyperlinks, lists and tables, frames, and listing the student's site in search engines. It covers preparation of graphical material for the Web, including consideration of browsers, plug-ins, platforms, bandwidth, and graphic file formats. Also included is an overview of some of the technologies and animation tools available via the Internet, including Flash/ Shockwave, CSS, DHTML, JavaScript, and others. Prerequisite: ITECH 150, or instructor's permission.

ITECH 282 (3 credits)*A+ Certification Hardware Core*

This course is a preparation for the CompTia A+ Certification Hardware Core Exam.

Prerequisite: ITECH 150, or instructor's permission.

ITECH 283 (3 credits)*A+ Certification Operating Systems Core*

This course is a preparation for the CompTia A+ Certification Operating Systems Core Exam. Prerequisite: ITECH 150, or instructor's permission.

ITECH 297 (1-3 credits)*Information Technology Internship*

This course is a practicum experience in the college computer lab or in a local workplace environment. A student who wishes to do a specific internship should seek out his/her advisor and the instructor early enough to allow arrangements to be made.

LE 105 (3 credits) Offered in Fall*Introduction to Criminal Justice*

This course is an introduction to the criminal justice system including the police, courts, and correctional systems. Minnesota P.O.S.T. objectives will be covered in this course.

LE 110 (3 credits)*Minnesota Traffic Law*

This course is a detailed study of the Minnesota Traffic Statutes and how they are interpreted, applied and enforced. Vehicle registration and insurance requirements, licenses and permits, driving conduct statutes, required equipment and proper functioning mandates, and se-



lected statutes regarding commercial vehicles and loading. Complete coverage of DWI statutes, detecting violations consistent with impaired driving, and processing of impaired drivers. Minnesota P.O.S.T. objectives will be covered in this course. *Offered in Spring.*

LE 111 (3 credits)

Minnesota Selected Statutes

This course is a study of Minnesota statutory law to include criminal code, sentencing, selected statutes for peace officers, and peace officer duties as related to Minnesota state law. Minnesota P.O.S.T. objectives will be covered in this course. *Offered in Fall.*

LE 122 (3 credits)

Constitutional Law & Civil Liability

This course is a comprehensive study of the general principles of the United States Constitution, its Amendments, and legal requirements governing enforcement of the criminal code. Minnesota P.O.S.T. objectives will be covered in this course. Prerequisite: LE 110 and LE 111. *Offered in Spring.*

LE 150 (3 credits)

Report Writing

This course will teach the student the unique police report writing procedures required of law enforcement officers. The focus will be on documenting the chain of evidence and chronological events applicable to criminal investigations. Minnesota P.O.S.T. objectives will be covered in this course. Prerequisite: LE 111. *Offered in Spring.*

LE 209 (3 credits)

Community Policing Tribal Lands

This course analyzes the police function and role in the community. The course will also emphasize policing tribal lands. The course will explore police –citizen interaction and legal ethical issues of policing in a diverse society. Emphasis will focus on problem solving, causes of crime and disorder, and examination of how police have solved problems in tribal and nontribal communities in the United States. Prerequisite: LE 122 . *Offered in Spring.*

LE 210 (3 credits)

Juvenile Delinquency and Justice

This course is an examination of juvenile delinquency and the juvenile justice system including its history, definitions, and explanations of delinquency. Students will analyze the juvenile court system with a focus on specific requirements for the processing of juvenile offenders. This course includes concepts and issues of status offenses, diversion and placements for juveniles, gang membership, and intervention strategies. Minnesota P.O.S.T. objectives will be covered in this course. Pre-req-

uisite: LE 105. *Offered in Fall.*

LE 211 (3 credits)

Community Policing

This course analyzes the function and role of the local police in the United States from three perspectives: police-citizen interaction, agency-community relations, and legal-ethical issues of policing in a diverse, democratic society. Explores victims' rights and law enforcements state mandated responsibilities concerning victims. Minnesota P.O.S.T. objectives will be covered in this course.

LE 221 (3 credits)

Evidence, Procedure & Criminal Investigations

This course is a comprehensive study of the lawful gathering and evaluation of information concerning criminal acts with a focus on the fundamentals and rules of investigation and evidence collection, including the knowledge and skills necessary for criminal investigation, crime scene management, the collection of evidence and the importance of maintaining the chain of custody. Minnesota P.O.S.T. objectives will be covered in this course. Prerequisite: LE 122 . *Offered in Spring.*

LE 223 (3 credits)

Controlled Substances: Identification and Investigation

Study of controlled substance identification, effects on the body and methods of concealment. Analysis of the manufacture, acquisition and distribution patterns of illegal drugs, and the dangers to officers in the handling of both substances and investigations. Prerequisite: POLSC 225. *Offered in Spring.*

LE 227 (3 credits)

Policing Tribal Lands

This course includes an overview of the development of tribal law enforcement from pre-contact to present with a focus on the changing loci of criminal jurisdiction on Indian land in relation to tribal sovereignty. This course also includes introductory analysis of sovereignty issues. Prerequisites: LE 111.

LE 280 (3 credits)

Police Ethics

This course is an exploration of police ethical concerns, perceptions, and the history and effects of police deviance and corruption. Police abuse of authority, the code of silence, and police brutality will be discussed. Police prejudice and discrimination will be examined. Minnesota P.O.S.T. objectives will be covered in this course. Prerequisite: LE 209. *Offered in Fall*



M

MATH 093 (3 credits)

Basic Math Skills

This course includes introduction to number sets, introduction to radicals and exponential numbers, performing operations on fractions, using the order of operations, conversion between decimals, percents, and fractions, relationship between proportion, ratios and rates, and basic algebra equations. Note: *This course does not count toward graduation and is not transferable to another institution.*

MATH 094 (3 credits)

Algebra Skills

This course includes operation of integers, solving equations, using the Order of Operations, solving one-variable equations, solving inequalities, introduction to polynomial operations, factoring and solve quadratic equations, and linear equations in two variables. Prerequisite: An appropriate score on the Mathematics placement test or Math 093 with a grade of C or better. Note: This course does not count toward graduation and is not transferable to another institution.

MATH 100 (4 credits)

Technical Math

This course presents basic mathematical topics as they are applied in a technical program. It includes a review of basic mathematical operations, and continues with the development of algebraic and trigonometric skills in a technical setting. Most concepts will be applied through course specific problems. Note: *This course is not intended for transfer.* Prerequisite: An appropriate score on the Mathematics placement test or MATH 093 with a grade of C or better.

MATH 140 (4 credits) Goal Four

Concepts in Mathematics

This course includes operation of integers, solving equations, linear equations in two variables, introduction to descriptive statistics with analysis of single variable data, and a conceptual understanding and application of mathematics in everyday life. Prerequisite: An appropriate score on the Mathematics placement test or MATH 093 with a grade of C or better. Offered in Fall & Spring

MATH 150 (3 credits) Goal Four

College Algebra

This course includes algebraic concepts including linear, quadratic, rational and absolute value equations and inequalities; function notation; complex numbers; graphs of relations and functions including lines and parabolas. Prerequisite: An appropriate score on the Mathematics

placement test or MATH 093 with a grade of C or better. Offered in Fall & Spring

MATH 155 (3 credits) Goal Four

Advanced College Algebra

This course covers functions, including polynomial, rational, inverse, exponential, and logarithmic; systems of equations and inequalities, and matrices. Prerequisite: An appropriate score on the Mathematics placement test or MATH 150 with a grade of C or better. Offered in Fall & Spring.

MATH 170 (3 credits)

Statistics

This course is an introductory course intended to give students a broad background in the use of statistics in a variety of disciplines. Topics include the study of descriptive and inferential statistics, probability, normal and binomial distributions, hypothesis testing, chi-square methods, correlation and regression, and analysis of variance. Students will learn to use one or more current statistical software programs. Prerequisite: An appropriate score on the Mathematics placement test or Math 150 with a grade of C or better.

MATH 210 (3 credits) Goal Four

Pre-Calculus I

This course provides the essential mathematical background needed in calculus. Topics include equation solving, functions (including polynomial, rational, exponential, logarithmic, trigonometric, and inverse trigonometric), identities, applications, and parametric equations. A graphing calculator is required. Prerequisite: An appropriate score on the Mathematics placement test or MATH 155 with a grade of C or better.

MATH 215 (3 credits) Goal Four

Trigonometry

This course covers right triangle and unit circle definitions of trigonometric functions, graphs of trigonometric functions and inverse trigonometric functions with transformations, trigonometric identities, Law of Sines and Law of Cosines applications of trigonometry, solving trigonometric equations, and polar coordinates. Prerequisite: An appropriate score on the Mathematics placement test or MATH 155 with a grade of C or better.

MATH 250 (3 credits) Goal Four

Calculus I

This course includes a review of functions, with emphasis on the graphing and behavior of functions. Limits are introduced and developed. The derivative of a function is defined and applied to algebraic and trigonometric functions. Applications involving maximum, minimum,



related rates, curve plotting, and the mean value theorem are presented. Prerequisite: An appropriate score on the Mathematics placement test or MATH 210 with a grade of C or better.

MUS 105 (3 credits) Goal Six

Music Appreciation

This course is designed to help students understand the basic principles of music, the importance of music in peoples' lives, how to listen to music, the value of self-expression, and how music can communicate our ideas and feelings.

MUS 250 (3 credits) Goal Six

History of Anishinaabe Music and Dance

This course introduces students to the great variety of Anishinaabe music and dance styles from around the United States and Canada. Course content focuses on the creation and function of the powwow drum and dance styles within Anishinaabe community and culture. No previous musical or dance experience is required. *Offered in Fall.*

MUS 299 (1-3 credits)

Special Topics in Music

This course offers performance, research, or composition projects designed by the student in consultation with the assisting faculty member (may include recitals).

OJI 101 (4 credits) Goal Eight

Speaking Ojibwe I

This course emphasizes values, learning the sounds of Ojibwe, developing introductory conversational skills, and understanding the concepts of language with the goal of using language in everyday life in Ojibwe communities. *Offered in Fall & Spring.*

OJI 102 (4 credits)

Speaking Ojibwe II

This course is a continuation of Ojibwe I, placing emphasis on values, vocabulary development and more conversational skills. Prerequisite: OJI 101. *Offered in Fall & Spring.*

OJI 111 (3 credits)

Speaking Ojibwe with Children

This course is a continuation of Speaking Ojibwe I, placing emphasis on values. The focus will be on encouraging teachers and families with young children to participate in revitalizing the Ojibwe language and traditions into everyday life. Prerequisite: OJI 101. (ECE students may use this class in place of OJI 102. Other students must

use this class as an elective). *Offered in Spring.*

OJI 201 (4 credits)

Speaking Ojibwe III

This course is designed to teach advanced grammar and Ojibwe literacy. Verbal skills will be emphasized through storytelling, literacy, and immersion through composition and media. Prerequisites: OJI 102. *Offered in Fall & Spring.*

OJI 202 (4 credits)

Speaking Ojibwe IV

This course is designed to continue teaching advanced grammar and Ojibwe literacy. The major emphasis of this course will be on public speaking and on writing an Ojibwe composition. Prerequisites: OJI 201. *Offered in Fall & Spring.*

OJI 220 (3 credits)

Teaching & Learning Ojibwe

This course will allow students to study various methods for teaching the Ojibwe language for grades K-College. The students will also learn about the oral and written expression of the Ojibwe language from a linguistic perspective and through Ojibwe storytelling, as well as elements of effective teaching and Ojibwe learning styles. Prerequisites: OJI 102.

OJI 299 (3 credits)

Special Topics in Ojibwe/Anishinaabe Studies

This course offers advanced research in Ojibwe and Indigenous American Studies or language topics. May be repeated with different content for credit.

PE 100 (3 credits)

Physical Conditioning

This course is designed to provide a basic knowledge of the factors involved in a healthy lifestyle. The physical fitness is designed specifically for job-related strength, agility, flexibility, speed, and cardiovascular endurance. Minnesota P.O.S.T. objectives will be covered in this course. *Offered in Spring.*

PE 101 (1 credit)

Introduction to Golf

This course offers the fundamental skills of golf, including grip, stance, swing patterns, and putting, as well as rules of course play.

PE 103 (1 credit)

Walking for Fitness

This course promotes a healthy lifestyle through the daily exercise of walking. Special considerations will be made



for students with medical limitations.

PE 110 (1 credit)

Intercollegiate Athletics

This course develops sport specific knowledge and skills relevant to the first semester intercollegiate athletic experience. Prerequisite: none. Approval is required for enrollment in this course. This course is required for all first-semester athletes. *Offered in Fall & Spring.*

PE 111 (1 credit)

Intercollegiate Athletics II

This course serves as the second level intercollegiate sport experience. Human performance components address sport specific development through position specific strength training and conditioning, and technical and tactical demonstration. Prerequisite: PE 110. Approval is required for enrollment in this course. This course is required for all second-semester athletes. *Offered in Fall & Spring.*

PE 112 (1 credit)

Intercollegiate Athletics III

This course serves as the third level intercollegiate sport experience. Semester three extends human performance development, and continues experiential learning through leadership and service to community. Prerequisite: PE 111. Approval is required for enrollment in this course. This course is required for all third-semester athletes. *Offered in Fall & Spring.*

PE 113 (1 credit)

Intercollegiate Athletics IV

This course is the final intercollegiate experience course for the academic term of the scholar-athlete. The course provides the scholar-athlete with the knowledge, skills, and the abilities to effectively demonstrate leadership qualities for their respective sport program. Prerequisite: PE 112. Approval is required for enrollment in this course. This course is required for all fourth-semester athletes. *Offered in Fall & Spring.*

PHIL 200 (3 credits) Goal Six

Indigenous American Philosophy

This course is an introduction to the philosophical worldview of the people of Leech Lake and other Indigenous peoples of North America. Content area includes study of ontology, epistemology, and ethics; creation stories and myths; how Indigenous American philosophy is affected by historical events; and how Indigenous Americans have tried to solve philosophical issues, past and present. *Offered in Fall.*

POLSC 150 (3 credits) Goal Five

American Government

This course covers the structure, development, and function of federal, state, and local governments, their relationship to each other, and their relationship to Indian nations.

POLSC 225 (3 credits) Goal Five

Treaty Law and Tribal Sovereignty

This course is an introduction to treaty law and history and analysis of major treaties affecting the Anishinaabe nation. Course draws on actual treaty documents and on case law, which explicates those documents. Theory and practice of self-determination for indigenous peoples and tribal sovereignty are emphasized. *Offered in Spring.*

POLSC 299 (1 – 3 credits)

Special Topics in Political Science

This course allows for special topics of current interest, depending upon demand and staff.

PSCI 150 (3 credits) Goal Three

Indigenous Astronomy

This course will examine the history of astronomy, the science of stellar and solar system formation, the evolution of stars and galaxies, and modern cosmology and the fate of the universe. Special emphasis on the scientific and cultural knowledge of astronomy relative to various Indigenous groups of the Americas, including Ojibwe, Lakota, Pawnee, Maya, and other indigenous nations. Lecture and laboratory. *Offered in Spring.*

PSY 100 (3 credits) Goal Five

General Psychology

This course provides an overview of the field of psychology. The course explores the history and development of psychology, and the major theoretical viewpoints. This exploration includes: the biological basis of behavior; sensation and perception; learning, memory, and intelligence; motivation and emotion; development lifespan; personality; psychological disorders; and social behavior. The course focuses on critical thinking skills and pays particular attention to the role of culture in psychological processes, research and study. *Offered in Fall & Spring.*

PSY 140 (3 credits) Goal Five

Developmental Psychology

This course examines contemporary research, theory and everyday applications, in the study of human development over the lifespan. We will focus on continuity and change within the individual in areas of cognition, personality, social interaction, and physical development. Critical thinking skills and the role of culture in developmental processes, research and study will be emphasized.



PSY 200 (3 credits) Goal Five

Indigenous American Psychology

This course covers the concept of holistic lifestyles, society and worldview as practiced and perceived by Indigenous American leaders and Anishinaabe scroll documents. Examination of Indigenous behavior, medicine, ceremonies, rituals, and the definition of metaphysical psychology will be covered. *Offered in Spring.*

PSY 220 (3 credits) Goal Five

Abnormal Psychology

This course examines contemporary research and theory pertaining to the nature, causes, diagnosis and treatment of psychopathology. The course will focus on how genetics, disease and environmental factors contribute to specific psychological disorders. Prerequisite: PSY 100.

SOC 101 (3 credits) Goal Five

Introduction to Sociology

This course provides an introduction to sociology as a way of viewing and understanding the world. Sociology is a field of study that explains social, political, and economic phenomena in terms of social structures, social forces, and group relations. Important sociological topics, including socialization, culture, stratification, deviance, race, ethnicity, and poverty will be explored. *Offered in Fall.*

SOC 200 (3 credits)

Indigenous American Women

This course studies the role of Indigenous women in traditional and contemporary societies and the consequences of colonization on the lives of women. The course examines Indigenous female gender roles and spiritual relationship to family and community with special emphasis on social change and interpretations of indigenous femininity in American society. *Offered in Spring.*

SPCH 201 (3 credits) Goal One

Speech and Communications

This course will teach speaking and listening skills that will be reinforced through multiple opportunities for interpersonal communication, public speaking, discussion, and the oral tradition of Ojibwe people. They will gain experience in critical thinking, reading, and writing, as well as in public speaking. Prerequisite: ENGL 101. *Offered in Fall & Spring.*

TA 210 (3 credits) Goal Five

Tribal Administration & Policy

This course covers special topics in political, legal, social, economic, and sovereignty issues in tribal management. The course emphasizes tribal perspectives in organization and implementing business strategies. Prerequisite: Completion of 100-level Business Management core courses.



Preserving culture through education

