MATH, SCIENCE and TECHNOLOGY DEPARTMENT
Bachelor of Science in Information Technology
Degree Vision, Mission and Learning Outcomes

Information Technology Vision
Information Technology Department graduates will demonstrate mastery of information technology and network administration using technologies and best practices that are foundational and applied industry wide.

Information Technology Mission
Information Technology Department graduates will demonstrate a technical networking mind to fulfill the Information Technology needs of the Oglala Lakota People.

The **Bachelor of Science in Information Technology** is a four-year degree that offers the opportunity for personal and career advancement in the IT field. This field has experienced a shortage of IT professionals over that past several years and the Pine Ridge Reservation is no exception.

The **Associate of Applied Science in Information Technology** is a two year terminal degree that provides its recipients with knowledge and skills to become a successful IT technician.

Information Technology Program Learning Outcomes (PLO)
The Information Technology Department is committed to the attainment of our Vision and Mission. Assessment of Program Learning Outcomes (PLO) is critical. We evaluate the student learning objectives in our baccalaureate degree and General Education.

Graduates of the Information Technology program are expected to:

- **Communication:** Communicate effectively with institutional network stakeholders.
- **Hardware:** Demonstrate the knowledge and skills necessary to provide maintenance and support for computer hardware in a networked and stand-alone environment.
- **Operating Systems and Support Software:** Demonstrate the knowledge and skills required to install and maintain network and client operating systems.
- **Network:** Demonstrate the knowledge and skills necessary to design, maintain and troubleshoot networks and network problems given a hypothetical or real LAN or WAN situation.
- **Security:** Demonstrate the knowledge and skills necessary to secure devices, networks and data.
- **National Certifications:** Demonstrate successful completion of selected national certifications in hardware (A+), Networks (Network+) and Security Certified Network Professional (SCNP).
- **Co Curricular:** Demonstrate participation through various opportunities that reinforce and maximize the application of learning experiences to the discipline.

MATH, SCIENCE and TECHNOLOGY DEPARTMENT
Bachelor of Science in Information Technology

Core Requirements: (28 Credit Hours)		Cr Hr	Where Taken	Date	Grade
Engl 103	Freshman English I	3			
Engl 113	Freshman English II	3			
MIS 113	Applied Information Processing	3			
SpCm 103	Speech Communications	3			
Math 154*	College Algebra (or above)	4			
_____	Science Elective	3			
_____	Literature Elective	3			
Psy 103	General Psychology	3			
_____	Humanities Elective	3			
Lakota Studies Requirements: (15 Credit Hours)					
Lak 103	Lakota Language I	3			
Lak 233*	Lakota Language II	3			
Lsoc 103	Lakota Culture (or LHist 203 Lakota History I)	3			
_____	Lakota Studies Elective	3			
_____	Lakota Studies Elective	3			
IT Core Requirements (32 Credit Hours)					
Sci 113	Technical Writing	3			
IT 153	Survey of Operating Systems	3			
IT 203*	Programming	3			
IT 224*	PC Design and Assembly	4			
IT 243*	Introduction to Networks	3			
Math 263*	Discrete Structures	3			
IT 273*	Business Information Sys Management	3			
IT 290a	Internship in Information Technology	1			
IT 290b	Internship in Information Technology	1			
IT 494	Capstone Project	4			
Program Electives (Select 15 Credit Hours)					
IT 103	Theory of Computational Devices	3			
GIS 313	Applications of GIS	3			
GIS 313	Remote Sensing	3			
Math 194*	Calculus I	4			
Bad 253	Principles of Management	3			
Bad 343*	Decision Support Systems	3			
IT 303*	Introduction to UNIX	3			
IT 313*	UNIX Shell Programming	3			
IT 353*	Internet Technologies	3			
IT 383*	Current Topics in Information Tech	3			
IT 393*	Implementing and Admin Mail Servers	3			
IT 443*	Advanced UNIX	3			
IT 402*	Cert Cram Session in Curr Tech #1	2			
IT 412*	Cert Cram Session in Curr Tech #2	2			
IT 422*	Cert Cram Session in Curr Tech #3	2			
IT 432*	Cert Cram Session in Curr Tech #4	2			
IT 442*	Cert Cram Session in Curr Tech #5	2			
_____	MIS or IT Elective	3			

Option 1 – Information Technology (Select 30 Credit Hours)

IT 134*	A+ Certification	4	_____
IT 253*	Supporting Workstations	3	_____
IT 323*	Command Line Interface	3	_____
IT 333*	Network Administration	3	_____
IT 343*	Application Software TnT	3	_____
IT 363*	Implementing and Adm Web Servers	3	_____
IT 373*	Web Design Fundamentals	3	_____
IT 404*	Network Protocols	4	_____
IT 423*	Supporting Network Operating Systems	3	_____
IT 453*	Network Security	3	_____
IT 474*	Network Analysis	4	_____
_____	MIS or IT Elective	3	_____
_____	MIS or IT Elective	3	_____

120 Credit Hours Total

Option 2 is currently under review – check the department web site for latest details

MATH, SCIENCE and TECHNOLOGY DEPARTMENT
ASSOCIATE OF APPLIED SCIENCE IN INFORMATION TECHNOLOGY
Vocational Degree

Core Requirements (16 credit hours)

Engl 103* Freshman English	3	_____
CS 103 Ethics in the Workplace	3	_____
SpCm 103 Speech Communication	3	_____
Math 134* Intermediate Algebra	4	_____
MIS 113 Applied Information Processing	3	_____

Technical Core (9 credit hours)

Trds 103 Occupational Safety	3	_____
Elec 103 Electrical Fundamentals	3	_____
Elec 113 Electical Blue Prints	3	_____

Lakota Studies Requirements (6 credit hours)

Lak 103 Lakota Language I	3	_____
LSoc 103 Lakota Culture (or LHist 203)	3	_____

IT Professional Requirements (29 credit hours)

Sci 113* Technical Writing	3	_____
IT 134* A+ Certification	4	_____
IT 153* Survey of Operating Systems	3	_____
IT 243* Introduction to Networks	3	_____
IT 224* PC Design & Assembly	4	_____
IT 253* Supporting Workstations	3	_____
IT 273* Business Information Systems Management	3	_____
_____ IT / MIS Elective _____	3	_____
_____ IT / MIS Elective _____	3	_____

Electives:

IT 203* Programming (Visual Basic)
IT 343* Application Software TnT
IT 353* Internet Technologies
IT 363* Implementing and Administering Web Servers
IT 373* Web Design Fundamentals
MIS 143* Introduction to Spreadsheets
MIS 243* Data Base Applications and Design

60 Total Credit Hours

Information Technology and Management Information Systems
Course Descriptions

Information Technology

SCI 113 Technical Writing and Communications
This class will cover the essentials of writing clear, concise proposals, reports, technical manuals, letters, memos, bid specifications, websites and other Information Technology documents. The student will also learn how to conduct a professional presentation. (This course DOES NOT satisfy the Engl 113 requirement for non – Science, Math and Technology programs.) 3 Credit Hours
Prerequisite: Engl 103 Freshman English I

IT 103 Theory of Computational Devices
This is a survey course of today's personal computers, networks, data, and other new technologies. Some of the topics covered include algorithms, operating systems, data storage and manipulation, networking and the Internet, software engineering and artificial intelligence. 3 Credit Hours

IT 134 A+ Certification
This course will prepare you to pass the A+ certification exams as required to become a computer service technician. You are prepared for the A+ exam in areas like assembly and dis-assembly of PCs, diagnosing and troubleshooting, basic networking, Windows and DOS. (3,2) 4 Credit Hours
Prerequisite: IT 103 Theory of Computational Devices

IT 153 Survey of Operating Systems
You will explore the differences between popular operating systems offered in today's marketplace. Operating Systems include, but not limited to Windows and UNIX. (2,2) 3 Credit Hours
Prerequisite: IT 103 Theory of Computational Devices

IT 203 Programming
You will be exposed to the fundamental concepts of problem solving and developing program logic using tools and techniques of programming. Topics include algorithm development, diagramming and program documentation and incorporating a programming language for hands-on application of programming concepts. C++ will be from UNIX. (2,2) 3 Credit Hours
Prerequisite: IT 103 Theory of Computational Devices, Math 154 College Algebra

IT 224 PC Design and Assembly
Participants will be able to identify essential components of a typical PC system and how they interact with each other. By the end of the semester, participants will be able to construct a working PC system complete with operating system. (2,4) 4 Credit Hours
Prerequisite: IT 134 A+ Certification

IT 243 Introduction to Networks
Physical and logical network topologies; transmission media and network access will be examined. Hardware and software network configurations, operations and requirements will be discussed. Topics include communication codes, transmission media, encoding methods, the OSI model, network standards and protocols. Copyright issues and ethics involved with computer operations will be discussed. 3 Credit Hours
Prerequisites: IT 153 Survey of Operating Systems

IT 253 Supporting Workstations
Focuses on the skills necessary to install and manage a GUI workstation environment. The basic areas you will cover include installation and configuration, architectural overview, user interface, memory management, file I/O, network administration, communications and printing, disk utilities, troubleshooting, and multimedia. Linux and Windows XX systems will be used. (2,2) 3 Credit Hours
Prerequisite: IT 134 A+ Certification

IT 273 Information Systems Management
A study of the Systems Development Life Cycle including problem investigation, determination of systems requirements, selection of solutions, feasibility studies, cost projections and proposal writing for existing or new systems. 3 Credit Hours
Prerequisite: SCI 113 Technical Writing or Engl 103 Freshman English I

IT 290a, IT 290b Internship in Information Technology
This course will be offered each semester. It is designed to introduce you to the rigors of being an Information Technology professional. You are expected to work 40 hours during the semester for each hour of credit. I Credit Hour -- up to 2 credits can be earned per semester.
Prerequisite: Freshman or Sophomore Status

IT 303 Introduction to UNIX
You will be given an introduction to UNIX operating system with specific reference to UNIX commands, the Unix file structure, editors, and shell programming. Includes an introduction to system administration and security. (2,2) 3 Credit Hours
Prerequisite: IT 153 Survey of Operating Systems

IT 313 Unix Shell Programming
UNIX is a versatile multi-user, multitasking operating system. UNIX has a structural software tool design philosophy that is essential for producing reliable, maintainable, and portable programs. You will cover the essential aspects of UNIX Shell programming such as the Bourne shell and shell scripts. In this class you will learn to manage UNIX files and directories using the UNIX shell commands, work with shell variables, metacharacters and regular expressions, use shell commands to redirect input, output and error messages, and archive files in the background and write different types of shell scripts. (2,2) 3 Credit Hours
Prerequisite: IT 153 Survey of Operating Systems

IT 323 Command Line Interface
Command line concepts and syntax to perform directory hierarchy maintenance, I/O redirection, pipes, and device and system maintenance using variables and switches are topics of the command line interface course. The Disk Operating System (DOS) and UNIX dialects will be studied. 3 Credit Hours
Prerequisite: IT 153 Survey of Operating Systems

IT 333 Network Administration
This course will acquaint you to a network environment and to provide basic entry-level skills in network administration. Hands-on exercises will allow you to become familiar with popular network operating system's management utilities including printing services, storage devices and setup of networking protocols. (2,2) 3 Credit Hours
Prerequisite: IT 243 Introduction to Networks, IT 253 Supporting Workstations

IT 343 Application Software TnT
This course will help you to develop problem-solving tactics to help end users overcome difficulties with their application program. Training aspects and how you can take a proactive approach for training end users on application programs will be investigated. 3 Credit Hours
Prerequisite: SCI 113 Technical Writing, IT 253 Supporting Workstations

IT 353 Internet Technologies
This course is aimed at giving you a comprehensive overview of Internet technologies. You will learn about the history of the Internet, how to use a wide array of Internet technologies, Internet trends and current issues relating to the Internet. Students will also learn the key skills required to create attractive, well-designed, secure WEB sites that meet the goals of a business organization. (2,2) 3 Credit Hours
Prerequisite: IT 253 Supporting Workstations

IT 363 Implementing and Administrating Web Servers
In this course you will learn the fundamentals of designing, installing, configuring, maintaining and upgrading your web site. Protocols presented include HTTP, HTTPS, FTP and SSH. Concepts covered include the use of indexed pages, directory hierarchy, SSL Certificates, SSI designs (ASP, CGI, JSP, PHP) and Streaming Media. Management of server logs, users and groups as they pertain to Web Servers will also be covered. (2,2) 3 Credit

Hours
Prerequisite: IT 243 Introduction to Networking

IT 373 Web Design Fundamentals
This course will explore aspects of the design and creation of web sites including the initial planning, design, implementation and publishing. With an emphasis on design, we will use web design tools such as HTML, Dreamweaver, Fireworks, and Photoshop Elements for the web will be covered. Copyright issues will also be covered. Students will design and publish a personal web page as part of the course. There will be a course web site with relevant URLs for that day's topic. 3 Credit Hours
Prerequisite: IT 243 Introduction to Networking, IT 323 Command Line Interface

IT 383 Current Topics in Information Technology
Offers current topics from the area of Information Technology systems. 3 Credit Hours
Prerequisite: Junior Status

IT 393 Implementing and Administrating Mail Servers
In this course you will learn the fundamentals of designing, installing, configuring, maintaining and upgrading your email site. Protocols that will be covered include SMTP, ESMTP, IMAP and POP3. Concepts covered include the communications dialogs between MUA, MSA, MTA, MRA and MDA, the design of the MX priority, antivirus and spam prevention techniques, email relays and mail encryption. Management of server logs, users and groups as they pertain to Email Servers will also be covered.
(2,2) 3 Credit Hours
Prerequisite IT 243 Introduction to Networking, IT 323 Command Line Interface

IT 404 Network Protocols
Focuses on TCP/IP using Microsoft Windows NT and UNIX. Topics include UNIX and Microsoft TCP/IP addressing, subnet addressing, implementing IP routing, dynamic host configuration protocol, IP, IPX/SPX, ATM address resolution, Net BIOS name resolution, Windows Internet name service, host name resolution, connectivity, and troubleshooting. (3,2) 4 Credit Hours
Prerequisite: IT 243 Introduction to Networking, IT 323 Command Line Interface

IT 414 Advanced NT
You will learn the installation and configuration of Windows NT Server and Workstation with an emphasis on the management and administration of user hardware and software resources. Hands on application of network administration principles on an operational NT Network is provided. (2,4) 4 Credit Hours
Prerequisite: IT 153 Survey of Operating Systems, IT 253 Supporting Workstations

IT 423 Supporting Network Operating Systems
Advanced network commands and utilities will be demonstrated to you to further supplement the skills required by a network administrator. Directory structures, security, printing and network administration will be covered. Troubleshooting methods and procedures will be discussed for workstations, servers and related hardware, and printing systems. Hardware and software to aid with problem identification and resolution will be discussed and demonstrated where possible. Network optimization and disaster recovery will be covered as well as copyright issues and ethics involved with computer operations. (2,2) 3 Credit Hours
Prerequisite: IT 153 Survey of Operating Systems, IT 253 Supporting Workstations, IT 333 Network Administration

IT 443 Advanced UNIX
This course is for users interested in becoming UNIX administrators. In this course we will identify the hardware requirements for a UNIX system, the features of job control, the guidelines for managing disk space usage, the benefits of networking, the features of Transmission Control Protocol/Internet Protocol (TCP/IP), the requirements for remote access, the features of Network Information Services (NIS) and the features of Lightweight Directory Access Protocol (LDAP). (2,2) 3 Credit Hours
Prerequisite: IT 303 Introduction to UNIX

IT 453 Network Security
Provides you with the essential concepts and methods for the network security. Topics covered include physical/logical security and different methods of implementation, data encryption/decryption. There will be

discussions of commercial and open source products for firewall, proxy, cache and NAT.
(2,2) 3 Credit Hours
Prerequisite: IT 323 Command Line Interface, IT 333 Network Administration, IT 404 Network Protocols, May be taken concurrent with IT 474

IT 474 Network Analysis
Provides you with the theory and methodologies for designing and analyzing network systems. Topics that you will cover include techniques used by computer professionals to determine, document, and analyze the network requirements; assessing the hardware/software needs of an organization. Emphasis will be on problem solving and cost-analysis in a networking environment. (2,3) 4 Credit Hours
Prerequisite: IT 323 Command Line Interface, IT 333 Network Administration, IT 404 Network Protocols, May be taken concurrent with IT 453

IT 490a, IT 490b Internship in Information Technology
This course will be offered each semester. It is designed to introduce you to the rigors of being an Information Technology professional. You are expected to work 40 hours during the semester for each hour of credit. I Credit Hour -- up to 2 credits can be earned per semester.
Prerequisite: Junior or Senior Status

IT 402 Certification Cram Session in Current Technologies Test #1
This class will help you study for certifications in current technology. These include but not limited to: operating systems, networking technologies, application software and communication technologies. (1,2) 2 Credit Hours
Prerequisite: Senior status,

IT 412 Certification Cram Session in Current Technologies Test #2
This class will help you study for certifications in current technology. These include but not limited to: operating systems, networking technologies, application software and communication technologies. (1,2) 2 Credit Hours
Prerequisite: Senior status

IT 422 Certification Cram Session in Current Technologies Test #3
This class will help you study for certifications in current technology. These include but not limited to: operating systems, networking technologies, application software and communication technologies. (1,2) 2 Credit Hours
Prerequisite: Senior status

IT 432 Certification Cram Session in Current Technologies Test #4
This class will help you study for certifications in current technology. These include but not limited to: operating systems, networking technologies, application software and communication technologies. (1,2) 2 Credit Hours
Prerequisite: Senior status

IT 442 Certification Cram Session in Current Technologies Test #5
This class will help you study for certifications in current technology. These include but not limited to: operating systems, networking technologies, application software and communication technologies. (1,2) 2 Credit Hours
Prerequisite: Senior status

IT 494 Capstone Project
This Capstone Project course develops an integrated understanding of the student's overall program. It project focuses on the best practices and techniques in Management Information Systems and Security. As a major part of the Capstone course, students will be responsible for completing a Capstone project. This project must be submitted to the Program Chair for approval prior to beginning the project.
4 Credit Hours
Prerequisite: Senior status

Management Information Systems

MIS 113 Applied Information Processing
An applied course designed to meet the needs of today's college students across the disciplines. Topics include, but are not limited to: computers based training techniques and on-line testing, E-mails and attachments, on-line conferences, delimited web-based research techniques, software applications, e-slides and web page

presentation/publishing tools, and report writing documentation.
3 Credit Hours

MIS 143 Introduction to Spreadsheets
This is a continuation of the study of spreadsheets emphasizing the advanced features of functions, macros and business graphics. 3 Credit Hours
Prerequisite: MIS 113 Applied Information Processing

MIS 213 Concepts of Database Management
An introduction to Data Base Management Systems (DBMS). Topics include but not limited to: relational models, keys, functions, queries, reports and management of database systems. 3 Credit Hours
Prerequisite: MIS 113. Applied Information Processing

MIS 243 Data Based Applications and Design
A continuation of the study of database emphasizing data base concepts, design and management techniques. 3 Credit Hours
Prerequisite: MIS 113 Applied Information Processing

NURSING DEPARTMENT

Michelle Bruns, MSN, RN, Chairperson/Instructor
Sharon Cordova, MSN, RN, Instructor
Wendelyn Jacobson, MSN, RN, Instructor
Laura Dunn , MSN, RN, Instructor
Darcie Thies, MAN, RN, Instructor
Christy Lone Elk, Secretary-Receptionist

Since 1986, the Department of Nursing, Oglala Lakota College, has served residents of the Pine Ridge and Rosebud Reservations and rural border communities in South Dakota and Nebraska. The program's curriculum is congruent with traditional Lakota values which focus on the individual and families in promoting, maintaining and restoring balance and well-being, and is accomplished within the Lakota cultural framework of *Woksape*-wisdom, *Woohitika*- courage, *Wowahola*-respect and *Wacatognaka*-generosity.

Graduates of the program receive an Associate of Arts (AA) degree in Nursing and are eligible to write the National Council of Licensing Examination (NCLEX). Passing the exam will result in licensure as a registered nurse (RN).

Nursing courses are currently offered in Pine Ridge, where the department has a facility with classrooms, offices, library, computer lab and a nursing skills laboratory. The program also has a dormitory building with accommodations for 12 students from outlying districts and the Rosebud and Cheyenne River Reservations. Many of the pre-nursing courses required for entry into the program can be taken at the student's district college center. Basic skills courses are offered which enable students to improve reading, math, English and science skills before applying to the Nursing Program. Clinical practice sites may include: Pine Ridge I.H.S. Hospital units and outlying clinics, the VA and Fall River Hospitals, Hot Springs, Bennett County Nursing Home, Martin, Chadron Community Hospital Chadron, NE, Rapid City Regional Hospital as well as community agencies on the reservation. Two vehicles are available for transportation of students and faculty to some clinical facilities and educational opportunities.

A student may enroll in basic and pre-nursing courses at OLC at any time and declare nursing as a major. Students must complete pre-requisites before applying to the Nursing Program. Students cannot enroll in nursing courses until they are accepted into the nursing program. Nursing faculty are assigned to specific district college centers and should be used by pre-nursing students to ensure a timely advancement through the pre-nursing curriculum. The number of students who can be admitted into the nursing program is limited. Students who have met the pre-admission criteria must apply by January 31st for admission into the nursing program to start the following fall semester. Students are admitted once a year, fall semester.

A cumulative grade point average (GPA) of 2.0 is required for successful completion of the nursing program. The grading system for the program is different from the rest of the college with higher requirements for each letter grade. Requirement for graduation with an Associate of Arts Degree in Nursing must be completed within four years of being accepted into the Nursing Program.

Admission: Pre-Requisite Courses

To apply for admission the student must have completed the following courses, or their equivalent, with a "C" or better and have an overall GPA of 2.5 or higher.

Engl 103	Freshman English I
Psy 103	General Psychology
Math 134	Intermediate Algebra
Chem 111	Chemistry of Health Science Lab
Chem 114	Chemistry for Health Science
Bio 224	Human Anatomy (must be completed within four years of starting the nursing program)

The required science courses (Chem.111/114, Bio 224, Bio 234, Bio 204) will utilize the nursing department's grading system for declared nursing students.

It is recommended that the following science courses be taken with the first year nursing courses after admission:

Bio 234	Human Physiology (if transferred in must be within previous 4 years).
Bio 204	Basic Microbiology

The following Lakota courses must be completed before graduation, preferably before beginning nursing courses:

Lak 103	Lakota Language I - OR
LSoc 103	Lakota Culture

Certified Nursing Assistant (C.N.A.) licensure or successful completion of OLC Nursing Department Nursing Assistant course (75 hours) is required before the start of the first semester in the Nursing Program.

Academic Skills Evaluation/Entrance Testing

Prior to being considered as a candidate for admission, the student must take an assessment examination. This assessment is an important indicator of whether or not the student has the requisite skills to succeed in the nursing curriculum. After a complete application and admission fee has been received, the candidate will be notified of testing dates.

Application Procedure

Students will be selected for admission to the Nursing Program only once a year to begin in the fall semester. The application procedure involves submission of:

a. Application form fully completed
b. Three letters of reference, using nursing department reference form, from non-relatives or friends; employers, teachers/instructors preferred.
c. Certificate of Degree of Indian blood/tribal enrollment if applying to OLC for the first time.
d. Official high school transcript or GED if not already on file.
e. Official college transcripts from all other colleges, universities, or post-secondary schools attended unless already on file at OLC Registrar's Office.
f. Typed Essay (five paragraphs of 100 to 150 words each) developing the answers to: why you have chosen nursing as a career, life events that contributed to your decision to be a nurse, people who influenced you, what types of nursing interest you, and what you hope to do with your

nursing degree. Include the four Lakota values of Respect, Wisdom, Courage, and Generosity in any way you can in your essay as you relate them to aspects of nursing.

g. Application fee (pays for drug testing and entrance testing fee)
h. Pre-admission entrance testing
i. Proof of Certified Nursing Assistant licensure or successful completion of OLC Nursing Department C.N.A. course.

Selection Criteria

Students who have completed all pre-requisites will be selected according to the following criteria:

a. G.P.A. of 2.5 or higher
b. Tribal enrollment priority as follows:
    1. Enrolled members of the Oglala Sioux Tribe who are veterans;
    2. Enrolled members of the Oglala Sioux Tribe;
    3. Enrolled members of other Lakota Tribes who are veterans
    4. Enrolled members of other Lakota Tribes (Rosebud and Cheyenne River priority)
    5. Other enrolled Tribal members
c. Reference letters, personal interview and an essay assist to evaluate the personal characteristics desired in health professionals and those that are reflective of Lakota values, including the ability to work with people, potential for leadership, reliability, and communication skills. The interview is set up during the month of April.

After assessing the above criteria, the most weight will be given to academic standing (GPA) and entrance test score.

1. When in the judgment of the Nursing Department Admissions Committee the program can accommodate additional students, non-Indian applicants who meet all above requirements will be selected according to the following criteria:
   Students committed to remaining in the service area as evidenced by:
    a. Living in the service area for more than 5 years thus demonstrating permanent residence;
    b. Having permanent family/relative ties in the community.
2. A Comprehensive Background Clearance. If the results of the background check bring up issues, they may be reviewed by the nursing department personnel with the Board of Nursing and clinical sites. This review might result in barring admission and/or dismissal from the program.
3. A negative department drug test. Failure to undergo a drug screen, a positive drug screen, or a tampered with sample will result in barring admission. If the drug screen comes back positive and a valid medical prescription exists, which is verified and the student is under the current treatment of a licensed medical professional, who verifies this prescription will not interfere with clinical judgment, the test will be deemed negative. The number of students admitted for each fall semester will not exceed available faculty or clinical resources and will be determined each spring.

Provisional selection and notification of students for the fall semester will be made by mid-summer. The number of students admitted for each fall semester will not exceed the available faculty or clinical laboratory resources.

Comprehensive Background Clearance and Drug Testing Policy

Purpose:
The Comprehensive Background Clearance and Drug Policy is implemented to:

- Protect public/client safety
- Meet the requirements of contracted clinical agencies
- Comply with eligibility for licensure

All nursing students will be given a drug test prior to beginning of classes in the fall semester. Random drug testing will be conducted throughout the school year. Any student testing positive will be referred to the OLC SAP (Student Assistant Program) and the S D HPAP (Health Professional Assistance Program). The student will be denied clinical rotation until evaluated and cleared by subsequent drug testing and also subjected to unscheduled drug screening. Students who test positive to subsequent testing will be dismissed from the program.

Vision Statement:

The Nursing Department will have resources in qualified faculty to increase/mentor the development of tribal faculty to better promote *Wolakolkiciyapi*. The department will continue to encourage the furthering of nursing education with the purpose of disease prevention and health promotion of native peoples.

Mission Statement:

To provide academic excellence that will prepare an Associate Degree (AD) nurse to respond with relevant knowledge and skills to meet health care needs of individuals and families as an entry level registered nurse.

Philosophy:

Nursing, as a caring profession, has the primary responsibility to address holistic health care, and health promotion/disease prevention needs of individuals and families in the community. The nurse is a responsible and accountable member of society who is committed to lifelong service, learning and education to respond to the needs of society.

<u>Nursing Department Terminal Program Outcomes;</u>
Upon graduation the student will be able to:

1. Apply knowledge of the nursing process and critical thinking as a framework for clinical decision making.
2. Demonstrate cultural competency and caring behaviors for the purpose of providing culturally appropriate nursing care to diverse populations.
3. Incorporate professional/legal/ethical accountability into practice, embracing the values of the profession and assuming the various nursing roles of life-long learner, teacher, client advocate, leader/manager, and care provider.
4. Utilize evidence-based practice and technology to provide safe competent, holistic nursing to clients across the life span.
5. Communicate and collaborate with client, family, healthcare and interdisciplinary teams to provide holistic health care and promotion/disease prevention.

Pre-Nursing Course Sequencing Schedule

Fall Semester		**Spring Semester**	
Chem 111	1 credit	Psy 103	3 credits
Chem 114	4 credits	Lak or LSoc 103	3 credits
Math 134	4 credits	Bio 224	4 credits
Eng 103	3 credits		
	12 credits		10 credits

Formal Admission to Nursing Department- Nursing Course Sequencing

Fall Semester		**Spring Semester**	
Nurs. 218	8 credits	Nurs. 223	3 credits
Bio. 234	4 credits	Nurs. 226	6 credits
		Bio. 204	4 credits
	12 credits		13 credits

Fall Semester		**Spring Semester**	
Nurs. 312	2 credits	Nurs. 322	2 credits
Nurs. 313	3 credits	Nurs. 324	4 credits
Nurs. 317	7 credits	Nurs. 328	8 credits
	12 credits		14 credits

NURSING DEPARTMENT
Associate of Arts in Nursing

2014-2015 Catalog

			Where	Date	Grade
1.	**Core Requirements (10 credits)**				
	Engl. 103	Freshman English I	3		
	Math 134	Intermediate Algebra	4		
	Psy 103	General Psychology	3		
2.	**Lakota Studies Requirements (3 credits)**				
	Lak 103	Lakota Language I **or** LSoc 103	3		
3.	**Science Course Requirements (17 credits)**				
	Chem 111	Chemistry for Health Sciences Lab	1		
	Chem 114	Chemistry for Health Science	4		
	Bio 224	Human Anatomy	4		
	Bio 234	Human Physiology	4		
	Bio 204	Basic Microbiology	4		
4.	**Nursing Courses (43 credits)**				
	Nurs 218	Foundations of Holistic Nursing	8		
	Nurs 223	Holistic Mental Health Nursing	3		
	Nurs 226	Holistic Maternal Child Nursing	6		
	Nurs 312	Pharmacology I	2		
	Nurs 313	Prof. and Transcultural Nursing	3		
	Nurs 317	Holistic Adult Health Nursing I	7		
	Nurs 322	Pharmacology II	2		
	Nurs 324	Capstone Nursing (Practicum)	4		
	Nurs 328	Holistic Adult Health Nursing II	8		

NURSING COURSE DESCRIPTIONS

Nurs. 218 Foundations of Holistic Nursing
This course will introduce the student to concepts basic to the nursing profession and to the roles of the associate degree nurse. The student will begin to utilize the nursing process as the means of providing basic nursing care to meet the bio-psycho-cultural needs of the individual with emphasis on the healthy elderly. Health promotion techniques as well as basic skills of health assessment and nursing care will be emphasized. Sub concepts of critical thought, therapeutic communication, pharmacology, medication administration and nutrition will be introduced. Lakota values of knowledge, respect, generosity and courage will be integrated into theory and clinical expectations. Clinical experiences will be provided through the I.H.S. Outpatient clinics and Acute Acre Unit, Cohen Residential home/visits to well elderly in the community, and the Bennett County Nursing Home, Martin, SD.
Fall Semester Placement, 8 credits (6 theory credit hours, and 2 clinical credit hours (at 3 to 1 ratio) for 90 clinical hours. Prerequisites: Requires formal admission to the nursing program. Co-requisites: Bio 234.

Nurs. 226 Holistic Maternal- Child Nursing.
This course will introduce the student to the psycho-social-cultural health of the individual from conception through adolescence. Included are concepts of pregnancy, labor and delivery, post-partum, newborn, child growth and development, health maintenance, and prevention from infancy through late adolescence within the context of the family as a whole. Sub concepts include nutrition, communication, and pharmacology in these populations. The student will further develop health assessment and nursing care skills for the female/maternity/fetal/newborn and pediatric client. Common childhood illnesses and health imbalances will be introduced. The student will expand skills in the use of the nursing process and critical thinking in meeting maternal/child health care needs within the family system, well child and acute care settings. The maternal child unit is viewed as a member of the tiwahe/tiospaye(family) as well as member of the tribe/society. Lakota values of respect, courage, wisdom and generosity are integrated into the didactic and clinical components. . Facilities utilized include I.H.S Hospital Pine Ridge.- Women's Clinic, Maternity Unit, Well Child Clinic, Head Start facilities on the Pine Ridge Reservation and Rapid City Regional Hospital- Pediatric Unit.
Spring Semester Placement, 6 credits (4 theory credit hours, and 2 clinical credit hours (at 3:1 ratio) for 90 total clinical hours. Prerequisites: N. 218, Bio 234. Co-Requisites: N. 223, Bio 204.

Nurs. 223, Holistic Mental Health Nursing
This course focuses on the health restorative aspects of common mental health problems. The student will continue to expand skill levels in the use of the nursing process by providing care in acute care and community setting for individuals experiencing difficulty with behaviors and/or relationships. The student will further develop therapeutic communication techniques and psycho-social assessments for these individuals. Facilities utilized include I.H.S. Hospital, Pine Ridge, and community agencies.
Spring Placement: 4 credits (3 theory credit hours, and 1 clinical credit hour (3:1 ratio) for 45 total clinical hours. Prerequisites: N. 218, Bio 234 Co-requisites: N. 226 and Bio 204.

Nurs. 312 Pharmacology for Nursing I.
This course will be an introduction to drug therapy with the student of specific drug classifications using the nursing process, with a focus on the general principles of pharmacology, therapeutic uses, toxicity, and mechanisms of action for each class of drugs. The course is designed to closely follow the body systems and corresponding health disorders covered in N. 317, offered in the fall semester.
Fall Placement: 2 theory hours of credit.
Prerequisites: N. 223,226 and Bio204. Co-requisites N. 317 and N.313. (Or permission from Nursing Chairperson and course instructor for non- nursing students.)

Nurs 313. Professional and Transcultural Nursing with Lakota Emphasis
This course will introduce the student to expanded trans-cultural nursing concepts, assessments, and the role of culture in understanding and caring for clients of diverse backgrounds in health care settings. Various cultures will be examined for their concepts of health and illness with special emphasis on providing health care in the Lakota cultural context. The student will also be introduced to the concept of culture of professional nursing, institutional norms, behaviors, and communication patterns that are critical to the student's transition into the health workplace. Student will gain further self-awareness of their racial, ethnic, and cultural backgrounds as a prerequisite for eliciting and responding to client's needs. Cross-cultural communication will be addressed to provide the student with skills to negotiate differences between clients and providers around health and illness issues.
Fall Placement: 3 theory hours of credit
Prerequisites N. 223, N. 226, Bio 204. Co-requisites N. 312, N.317

Nurs 317 Holistic Adult Health Nursing I.
This course will focus on nursing care and the application of the nursing process in the care of the adult experiencing selected pathophysiological processes affecting body regulatory mechanisms. This course builds upon basic nursing knowledge and skills established during the first year of the program. Opportunities to apply theoretical concepts and perform nursing skills specific to adult clients are provided through faculty guided learning experiences in acute health care settings. Clinical experiences will include home health/hospice programs at Chadron Community Hospital, Chadron, Ne. and Bennett County Hospital, Martin, SD, and acute care hospital setting at VA Medical Center, Hot Springs, SD.
Fall Placement: 7 credits (4 theory credit hours, 3 clinical hours at a 3:1 ration) 135 total clinical hours.
Prerequisites: N. 224, N. 226, Micro 204. Co-requisites: N. 312, N. 313.

Nurs 322 Pharmacology for Nursing II
This course is a continuation of N. 312 and continues to present knowledge of specific drug classification using the nursing process, with a focus on general principles of pharmacology, therapeutic uses, and mechanisms of action for each class of drugs. This course is designed to closely follow the body systems and corresponding health disorders covered in the N. 326 course.
Spring Placement: 2 credits (theory).
Prerequisites: N.312, N.317 Co-requisites: N. 326, N. 324. (Or with permission of Nursing Chairperson and course instructor for non-nursing students)

Nurs 324 Nursing Capstone
This course is the culmination nursing practicum course which will begin mid-way during the last spring semester and will allow the students the opportunity to demonstrate competencies with terminal program outcomes and to refine their nursing care practice skills. Knowledge and skills from basic and general education, science and nursing disciplines are integrated while implementing increasingly complex roles to deliver safe, competent quality nursing care to individuals and groups in focused clinical settings. Student will collaborate with faculty and a preceptor in a chosen care setting, planning, organizing, and evaluating a learning experience and practicing professional nursing at the beginning nurse level. Within the seminar context, the student will be expected to explore current literature and research utilized for health promotion and protection, health restoration, maintenance and support.
Spring Placement: 4 credits (1 credit hour classroom synthesis seminar, 3 clinical hours at a 3:1 ration) total clinical hours 135.
Prerequisites: N. 312, N. 313, N. 317. Co-requisites: N. 322 and N. 326

Nurs 328 Holistic Adult Health Nursing II
Prerequistes: N. 312, 313, 317 Co-requisites: N. 322, N. 324
This course is a continuation of N. 317 and will continue to emphasize nursing care and application of the nursing process in the care of the adult experiencing selected pathophysiological processes affecting body regulatory systems. Students will expand their use of critical thinking and the nursing process by providing nursing care, including nursing management skills to individuals in the hospital setting. Clinical experiences will include an emergency room rotation, as well as acute care hospital settings. Facilities utilized will include the Indian Health Service Hospital, Pine Ridge and may include Chadron Community Hospital, Chadron, NE, Fall River Hospital, Hot Springs, and Rapid City Regional Hospital, South Dakota.
Spring Placement: 8 credits (6 theory credit hours, 2 clinical hours at a 3:1 ratio) 90 clinical hours during the first half of the semester.