Kentucky State University

Undergraduate Catalog

2019-2020

For more information, please call us toll-free:
Admissions — 502-597-6813
KSU Directory Assistance — 877-367-5978 or 502-597-6000

Visit us on the Web: http://www.kysu.edu

Published by

TABLE OF CONTENTS

Leadership and Governance 4

Calendar 5

Chapter 1 - The University 6
- History 6
- Our Legacy 7
- Mission, Vision, and Core Values 8
- Accreditations 10
- University Notices 11
- Important Contact Information 15

Chapter 2 – Undergraduate Admissions 17

Chapter 3 – Fees and Financial Assistance 33

Chapter 4 – Veterans and Military Student Affairs 47

Chapter 5 – Office of Enrollment Management and Student Engagement 58

Chapter 6 – Student Support Services 64

Chapter 7 – Registration and Academic Records 67

Chapter 8 – Academic Degrees 88

Chapter 9 – College of Agriculture, Communities and the Environment 99

Chapter 10 – College of Business and Computer Science 107

Chapter 11 – College of Humanities and Social Science 120

Chapter 12 – College of Natural, Applied and Health Services 145

Chapter 13 – College of Public Service and Leadership Studies 171

Chapter 14 – Graduate Programs 186

Chapter 15 – Faculty and Administrators 187

Chapter 16 – Course Descriptions 201

The Land Grant Program at KSU currently has five programs. The traditional sections are the Community Research Service (CRS) and Cooperative Extension Program (CEP) and the three academic divisions, the School of Agriculture, Food, and Environment, the School of Aquaculture and Aquatic Sciences and the pg.3 (<</A0 Tw ( )Tj-0.r(pg.37 (i)4

Accreditations

Kentucky State University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate, baccalaureate, masters, and doctorate degrees. Contact the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call (404) 679-

OFFICE	LOCATION	PHONE 597-xxxx
CENTERS OF EXCELLENCE		
Atwood Institute for Race, Education and the Democratic Ideal	423 Hathaway Hall	5744
Center for Research on the Eradication of Academic Disparities (C.R.E.E. D.)	409B Hathaway Hall	6902
Center of Excellence for the Study of Kentucky African Americans (CESKAA)		

CHAPTER 2 -- UNDERGRADUATE ADMISSIONS

The B.R.E.D.S. Office
(Building, Recruitment, Enrollment & Discovery Services Office)

Jennifer Williams, Director of B.R.E.D.S. Office
Academic Services Building, Suite 306
Phone: (502) 597-6813
Tol.S- /MCID 7 w 30t Tee: 0.003 Tw 1822 0 Td(-EMC /34.6 (Su)-5 Tw.5 (S80 Tw 2.00 T10.9 (3 (t)7.633EMC /P <Tw 2.114 0 Td[(6)6.2 (84-0.6 (Su)(94

Student Admission Classifications

Under 13KAR2:045, the Commonwealth of Kentucky requires that all admission applications be reviewed to determine if documentation of residency is required. Each applicant is notified if documents are needed.

Kentucky Resident - A student who is a resident of Kentucky or whose parent(s) is (are) a resident(s) of Kentucky is considered a resident of the state. If a Kentucky resident graduated from an out-of-state high school, proof of residency must be submitted in order to avoid out-of-state tuition. Submission of a residency affidavit to the Office of Admissions may be required.

Non-Resident - A student who is not a resident of or whose parent(s) is (are) not a resident(s) of Kentucky is considered a non- resident. Additional information can be obtained at the following website: www.lrc.ky.gov/kar/013/002/045.htm.

Transfer Student

A student transferring less than 24 semester credit hours to Kentucky State University is considered a freshman transfer. A student transferring 24 or more semester credit hours to Kentucky State University is considered a transfer student. Transfer students must submit the following additional documents for admission consideration:

- Transcripts of all college work attempted K1.1e159 (t)s5

Senior Citizens / Donovan Scholar

Kentucky residents, age 65 or older, may complete the application, be admitted to the University, and have all tuition and fees waived. The University may limit the enrollment of these students if classes are filled or if their admission necessitates additional classes. You must submit a copy of your driver license to the Bursar's Office to verify age and residency.

Readmission

Students who have previously attended Kentucky State University and who wish to reenter must secure readmission from the Office of Admissions. In order to be eligible for re-admission to the University, students who attended another institution for one semester must have earned an overall average of C or better since last attending Kentucky State. He/she must complete the University's Re-enrolling Form and supply the Office of Admissions with an official transcript from the institution previously attended.

STUDENT RESIDENCY

As a part of the state-supported system of higher education in Kentucky, Kentucky State University is governed by 13 KAR 2:045, a statewide policy for determining residency. For additional information and a copy of the affidavit for a review of residency status, contact the B.R.E.D.S. Office.

the student's

(a) Student discipline by the institution through a policy written and disseminated to students; or

(b) Criminal prosecution.

Section 4. P

K

(i)Ownership of real property in

Section 13. Institutional Responsibilities.

Each institution shall:

(1) Provide for an administrative appeals process that includes a residency appeals officer to consider student appeals of an initial residency determination and which shall include a p.6 (d6MC -4 (l)0u3s/)sp.u3s/fp.f-1.16MC -4 Tc ur(v)22 t(l)0u3d(0.

UNIVERSITY RESIDENCY APPEALS POLICY AND PROCEDURES

The Office of Admissions determines the residency status of students at the time of application to the University in compliance with 13 Kentucky Administrative Regulation 2:045. A student who questions his/her residency status, whether a new applicant or a currently enrolled student, should direct all inquiries to the B.R.E.D.S. Office. Upon completion of the required affidavit by the student and submission of all required documentation, a written residency decision will be made by the B.R.E.D.S. Office. A student may appeal this decision within 14 days from the date of the residency decision through the B.R.E.D.S. Office to the University Residency Admission/Recruitment Committee, which is established to consider residency classification appeals. The University Residency Admission/Recruitment Committee shall issue its written decision and shall notify the student within 45 days of the receipt of the appeal.

Payment Methods

- PAYMENT BY MAIL -- NEVER SEND CASH THROUGH THE MAIL.

  If the student chooses to pay by mail, the payment must be in the form of a cashier's check, certified check, money order, or personal check. The student's ID number must be on the front of payment method.

  Mail your payment to: Kentucky State University
  Cashier's Office
  364 Academic Services Building
  400 East Main Street
  Frankfort, KY 40601

- PAYMENT IN PERSON

  Fees may be paid in person at the Bursar's Office - located in the Academic Services Building 3erverver( )-0.7 (S)-4.1 (er)-2

The enrollment fee of $25 is due when signing up for the PIO through WIRED/Touchnet. The PIO enrollment fee is not refundable, regardless of when your financial aid or other payments are applied to your account.

Enrollment in PIO is not automatic. You must enroll online through WIRED. Students may pay the full installment amount due online.

PIO enrollment is available through the end of late registrati

Tuition and Fee Refund Policy

Students withdrawing from the University or dropping semester credit hours which result in a change in the assessment of fees will be eligible for a refund of fees based on the dates and conditions listed hereafter. No refund can be made on certain fees and deposits as established by the Kentucky State University Board of Regents.

Financial Aid

Kentucky State University acknowledges that many students require some form of financial assistance to support their education. KSU provides a wide range of resources through scholarships, grants, college work-study, and low-interest loans. Administration of financial assistance is the responsibility of Kentucky State University's Office of Financial Aid, which is located in the Academic Services Building, Suite 349; 502-597-5960.

Applying for Financial Aid

Fall and Spring Semesters

Students and parents are urged to read the following information with particular care. Established University policies are strictly adhered to in both the award and termination of University financial assistance. Important federal guidelines must also be followed.

New First-Year and Transfer Students

Four specific steps must be followed before a freshman or transfer student may be officially considered for financial assistance:

1. Every applicant must be accepted into an eligible degree program.
2. The prospective student must submit official admission application materials to the B.R.E.D.S Office (Admissions).
3. Every applicant must complete the Free Application for Federal Student Aid (FAFSA) online at www.fafsa.ed.gov annually. The FAFSA is available on October 1st every year to apply for financial assistance for the next academic year. Kentucky State University's Federal School Code (001968) must be indicated on the FAFSA application. Applicants are strongly encouraged to use the IRS Data Retrieval Tool (DRT*) to load personal income tax information into the FAFSA electronically.
4. As a result of filing the FAFSA, the applicant will receive a Student Aid Report (SAR) via email from the Central Processing System (CPS) Applicants should review the SAR for accuracy and respond to any requested additional information and/or documentation. If an applicant is selected for verification, he/she must submit the appropriate Verification Worksheet, along with copies of both the parent's and the student's federal IRS Tax Transcript(s) to the University's Financial Aid Office **Documents need to be submitted within** fifteen (15) days. *Successful use of the IRS DRT when completing a FAFSA eliminates the need to mail in IRS Tax documents.

2.

maintain satisfactory academic progress as defined here will not be permitted to receive federal or institutional financial aid.

Qualitative Progress (GPA)

Degree Level	Minimum Cumulative GPA
Undergraduate Students with 0 – 29 credit hours	1.70
Undergraduate Students with 30 or more credit hours	2.00
Graduate Students	3.00

Quantitative Progress (Earned Hours/ Completion Rate)

A student must successfully complete a minimum of 67% of the credit hours attempted. Successful completion for this purpose is defined as receiving a grade of "D" or better. Example:

	Fall Semester/Spring Semester	Total Attempted (All Years)	Must earn at least 67%
1st Year	15 hours + 15 hours	30 Hours	30 hours x 67% = 20 hours
2nd Year	16 hours + 16 hours	62 Hours	62 hours x 67% = 42 hours
3rd Year	17 hours + 17 hours	96 Hours	96 hours x 67% = 64 hours

- Attempted hours are defined as those for which a student receives a grade of A, B, C, D, and F.

A student who changes his/her major is still responsible for completing his/her degree in the maximum time frame. The allowed time frame does not automatically increase if you change your major or pursue double majors.

Appeal of Financial Aid Suspension

Students who fail to meet satisfactory progress standards, as defined above, may appeal the rulinu to the

Kentucky State University Foundation Scholarships

Kentucky State University Foundation Scholarship application forms can be obtained from the Office of Financial Aid (Academic Services Building 349; 502- 597-5960; www.kysu.edu/financial-aid). Graduating high school seniors must have a minimum cumulative GPA of 3.0 and a 21 ACT/SAT equivalent. Returning students must have a minimum cumulative GPA of 2.5 and 30 semester credit hours per academic year.

Academic Scholarship Policy

Changes in guidelines and procedures for scholarships shall be recommended by academic units, schools, and/or colleges and submitted to the Scholarship Committee for review and submission to the President for approval. Kentucky State University commits to maintaining scholarship programs of financial assistance. All academic scholarship awards shall be processed by SFA for compliance with the following University policies:

1. All scholarship and grant-in-aid recipients **must have a completed Free Application for Federal Student Aid (FAFSA) on file by January 15th.**
2. Each continuing academic scholarship recipient must maintain at least full-time enrollment and maintain the specified cumulative grade-point average (GPA) based on the individual scholarship program.
3. All academic scholarship candidates must be enrolled full-time and earn at least 30 semester credit hours per academic year at KSU.
4. Each continuing academic scholarship recipient **must maintain full-time status during each semester and successfully complete a minimum total of 30 non-repeated semester credit hours (unless otherwise stated) during each academic year.** For the purpose of Scholarships, an academic year is defined as the fall and spring semesters only.

   Examples: **a**. Fall 15 hours + Spring 15 hours **b**. Fall 12 hours + Spring 18 hours
5. Each academic scholarship candidate must have at the time of award no less than a 3.0 cumulative GPA on a 4.0 scale and a minimum 21 ACT composite score, unless otherwise stated. Individual scholarship programs may require higher academic GPAs and/or test scores.
6. Scholarship aw(a)-6.1 (ma0 Tw 1.611 d9 (co)65 (t41.7 7i)4. (w(a)y/)s)0 b11 (i.6 (e)5 (s)6.8 (tei)4.5 003 Tw(e)2 p)8.1 (

Here are some of the support services that sets KSU apart in helping you achieve your educational goals:

- No application fee for undergraduate veterans, active duty service members, or military dependents
- Maximum credit hours for military experience
- Priority registration and book vouchers upon request
- Dedicated Veteran and Active Duty Supplemental Academic Advisor
- School Certifying Official to ensure federal entitlement is received ASAP
- Military-helpful withdrawal and readmission policy

GI Bill Education Benefit

Kentucky State University is an Institution of Higher Learning (IHL) approved for training of service members, veterans, and their eligible family members. Students can determine their GI Bill Education benefits eligibility by clicking on the 'For Students' tab at https://benefits.va.gov/gibill/ or by contacting the VA directly at 1-888-442-4551. The Director, Veterans and Military Student Affairs will assist all service members, veterans, and their family members/dependents with all actions associated with eligibility determination, military connected questions, and the enrollment certification process.

The Office of Veterans and Military Student Affairs supports all military connected students to include service members, veterans, and their family members regardless if the students are eligible for GI Bill Education benefits. Those students eligible for VA GI Bill Education benefits are required to notify the Director, Veterans and Military Student Affairs of any changes to their student status during any given semester for which the student receives GI Bill Education benefits.

GI Bill Education Benefit Certification Process

All eligible students who wish to use their GI Bill Education benefit are required to complete and submit the Military Student Enrollment Reporting Form no later than 30 days after classes begin for the semester. By signing and

/TT0 1 03 0 0 73

Military Science Program

Army ROTC

Kentucky State University has entered into a partnership agreement with the U.S. Army Cadet Command (7th Brigade) Army Reserve Officers Training Corps (ROTC) program. Students who wish to participate in the Army ROTC program have access to receive ROTC scholarship assistance by way of contractual agreement and commission as a second lieutenant in the Unitedo re

C6(r)-11.1 (my)jET679.56.52.250.779.re Td.52 mgg357 (T)-6.9 (C)]TJ0 Tc 0 Tw 2.347 0.86( )Tj-0.019 Tc 0.019 Tw 0.198 0 Td[(R)-2

K

Chapter 5
Student Engagement and Campus Life

Dr. Derek Greenfield
Vice President for Student Affairs / Chief Diversity Officer
412 Academic Service Building
Phone: (502) 597-6388
E-mail: derek.greenfield@kysu.edu

The Office of Student Engagement and Campus Life delivers student-centered services and activities to enhance the academic experience of the Kentucky State University student, and the person as a whole in society. Student Engagement strives to nurture the student in the growth of the personal, social, civic, safety, and professional growth

Admission & First Year Experience

All incoming freshman students (and transfer students under 30hrs) would be admitted into University College. Based on the meta-major they selected during their application process, each student is placed into one of ten learning communities. Bred Week (Welcome Week for First Year Students) is the first time they will be introduced to these learning communities and provides the opportunity for intentional relationship building early on. Additionally, the core implementation of the learning communities would be within the KSU seminar courses for first-year students.

First Year Advising

During a student's first year at KSU, they will be assigned an academic advisor in the University College Center. The UC Advisor will provide personalized, one-on-one support in navigating the first year, and staying on track towards the students major of choice. Each student would (. (8 ( )4..e Tw ( )Ti 6 (( )T6 -Tc 0 Tw 6)5.e)-94.090 263d( )Tj-0.0 Tw 4.5800 0Td[(a

K

Residence Life

The University provides housing for students who want to live on campus. The Office of Residence Life oversees the operation of all University-owned and operated housing facilities for students and coordinates all programs, services, and activities associated with these facilities. Most full-time undergraduate students live in the University's residence halls. All full-time first year and sophomore students, except veterans of at least two years' active military service, stud an4.7 (u)3.1 (de(o2)1 (f)wt)4.7 (<(s)-4.2 2(t)-.1 4u1i(ar)-2.m)e2.3 (i)0.(l)3 2.3 (i)0 ae2f10.02 cm (i)0(v)1s2ysfofes4 (y)m.9 (t)-6.3

Chapter 6
Support Services

Kentucky State University provides a variety of support services to assist students as they move toward matriculation in their degree program.

Blazer Library

Ms. Sheila Stuckey, Director
Phone: (502) 597-6852
Service Desk: (502) 597-6851
Email: sheila.stuckey@kysu.edu

Website Link: https://kysu.edu/academics/library/

Learning to organize and carry out independent research is an integral part of a university liberal studies education. Paul G. Blazer Library, located at the northeast end of the campus, provides comprehensive and current research materials and facilities for students and faculty. The university community is also encouraged to use Blazer Library for personal enrichment and leisure reading.

Blazer Library's collection of more than 600,000 volumes includes such materials as books, journals, eBooks, DVD's, and other resources to aid students in their course work and research. As a member of the Kentucky Virtual Library (http://www.kyvl.org), Blazer Library has access to more than sixty databases including: Academic Search Complete, AGRICOLA, Business Source Premier, CINAHL Full text, Education Full text, Health Source: Nursing Academic Edition, Newspaper Source, MLA and PsycINFO to name a few. Other electronic resources such as our JSTOR Collections are available online for research and information. Blazer Library uses OCLC Worldshare Management Services as its library management system. KSU users have access to the Library's full-text resources as well as access to billions of electronic, digital and physical resources from other institutions worldwide, 24 hours a day via the OCLC WorldCat Discovery system.

The Library provides a variety of services including wireless access, laptop checkout, group study rooms, and computer labs. From the Library's homepage, users can access web resources, electronic databases, catalogs from other libraries, .3 (.)ee0.222 4.8 (o)5 (,)3.4 t1 (s)2.9 (:g Tc 0.k)]TJ-0.002 Tc 0.003N8

Blazer Library is a selective depository for United States Government Document Publications. The library has a variety of materials including paper and electronic governmental resources to support the University curriculum, research and special interests. Many publications are available electronically, check for links on the library's homepage.

The Education Curriculum Lab, located on the ground floor, supports the mission of Paul G. Blazer Library and the Teacher Education Program at Kentucky State University. The Center houses a collection of both print and non-print materials for use by students and faculty. The Lab's collection provides diverse resources for use in P-12 classrooms as well as professional resources for P-12 educators. The Lab is designed to assist and support college level students and Faculty in their teacher education needs.

The second floor of the library houses both a part of the

in 2015. This includes three straight years (2015-17) women's volleyball advanced to the NCAA tournament via winning the SIAC tournament. Multiple SIAC championships have been garnered by the softball and volleyball teams and the men'

Chapter 7
REGISTRATION and ACADEMIC RECORDS

Office of the Registrar
Ms. Yolanda Benson, Registrar
Academic Services Building, Suite 323
Phone: (502) 597-6234
Email: registrar@kysu.edu

Academic Load 29
Course Numbering System 29
Catalog of Record 30
Registration 31
Grading System 31
Withdrawal – course/university 32
Academic Standing 33
Credit Earning Alternatives 36
Requirements for Graduation 39
Transcript Requests 40
Student Records 41

The Office of the Registrar is responsible for creating, maintaining, certifying, and protecting the University records of courses, degrees, and students. Key specific student-service responsibilities include: course scheduling and registration; enrollment and veteran certification; degree audits; diploma services; and transcript services. The Registrar's Office is located in the Academic Services Building, Room 323. The phone number is 502-597-6234.

Policy Changes
Students are expected to become familiar with University regulations, as they apply to all students enrolled in undergraduate courses at Kentucky State University. KSU reserves the right to modify regulations and/or to make any policy changes or adjustments in this catalog which are deemed necessary. Such regulations shall govern both old and new students and are effective when adopted.

Classification
Students shall be classified as indicated below upon successful completion of the specified number of semester credit hours, provided that all entrance requirements have been met.

Freshman	0–29 semester credit hours
Sophomore	30–59 semester credit hours
Junior	60–89 semester credit hours
Senior	90 or more semester credit hours

Academic Load

An undergraduate student must carry 12 or more semester hours to be full time, 9–11 semester credit hours to be three quarters time, 6–8 semester credit hours to be half time, and 1–5 semester credit hours to be part time or less than half time. The normal semester load for undergraduate students is between 16-18 semester credit hours.

In order for an undergraduate student to pursue 19 or more credit hours per semester, a) the student must have the written approval of his/her advisor and the academic unit head; or b) the student's cumulative grade-point average must be 3.2 or better. An undergraduate student may pursue a maximum of 21 semester credit hours during the fall or spring semester of the academic year for which he/she is a candidate for graduation. An undergraduate student may pursue a maximum of 10 semester credit hours during the summer session.

Semester Credit Hour

For traditional courses, a semester credit hour represents one clock hour of instruction (or two clock hours of laboratory) per week and two hours of student work per week for a minimum of fifteen weeks (or equivalent). For online classes, each semester credit hour would represent a minimum of three hours of instruction and/or student work per week for a minimum of 15 weeks (or the equivalent) to meet learning outcomes appropriate to the level of the course. Some courses in art, music, physical education, and other areas are calculated according to the accreditation standards in the particular

required), necessary to complete undergraduate degree requirements for a program, shall 2019

K

E100.74(N)

K

Appeal of Removal from a Major, Minor, or Area of Specialization - A student may appeal his/her removal from a major, minor, or area of specialization according to procedures established by the academic unit.

A student may appeal removal from a major, minor, or area of specialization and request a fourth attempt in such a course if his/her cumulative grade-point average is 2.0 or better and his/her cumulatier 2s/9 -1.Ah.ade

The challenge examination will be comprehensive in nature and will have been approved by the dean or chairperson as an acceptable examination. A passing grade (P) on the challenge examination is the sole determinant of successful

Analyzing and Interpreting Literature	50	Either ENG 211 or 215	(3)
College Composition (with Essay)	50	ENG 101	(4)
English Literature	50	Either ENG 322 or 323	(3)
Humanities World Languages	50	PHI 200	(3)

French Languages

necessary score on a proficiency examination may qualify for a 102-level foreign language course (or above) depending upon their score. Foreign language proficiency examinations are available to those who seek advanced placement in or exemption from the foreign language requirements. Students demonstrating competency above the 102-level are considered to have fulfilled the foreign language requirement of the University's Liberal Studies Requirements. However, students demonstrating foreign language competency through a proficiency examination will not receive academic credit. Foreign language proficiency examinations may not be repeated.

Any entering first year student who has taken a foreign language for three years in high school and passed with a grade of C or better may not enroll in a 101 or 102 level of the same foreign language without taking a Placement Exam to determine level of competency. Such students may choose, however, to take a 101 level of a foreign language other than those studied in high school. Students who have been out of high school at least five years are exempt from this requirement. Music: A music placement test is required of all entering music majors.

Nursing: Kentucky State University's School of Nursing offers Licensed Practical Nurses (LPN's) the opportunity to be exempted from taking NUR 101 by successfully completing the ACT-PEP Fundamentals of Nursing Examination and a nursing skills test administered by the School of Nursing. A minimum of 50 is required on the ACT-PEP, and a satisfactory performance is required on the nursing skills test. Code 1516 must be used to designate Kentucky State University as a score recipient. Interested students should contact the chairperson of the School of Nursing, 502-597-5957.

Credit for Life Experience (CLE)

The Credit for Life Experience program is a Kentucky State University option which affords an adult student, who has significant learning generated by life experiences, the opportunity to document this learning for possible academic credit. A student may be able to earn college credit for significant professional, artiswhnud6na (.)]TJ0 Tc 0 Tw 1 ()31 (l)3.5 4o59.8

The Registrar, or his or her designee, will evaluate and approve all general education core transfer coursework from state assisted college and universities in the Commonwealth of Kentucky and regionally accredited post-secondary institutions that are not state-assisted institutions or institutions outside the Commonwealth of Kentucky based on Kentucky State University policies anr vs9of on1 (t)-1 t (i)10.20..yteaastons91 (om)1.7 crss-n1 (t)-1E4.9 (d (i)10..5 (l)2ac 0.004.8 (

digital service portfolio. The Office of Regional Stewardship will oversee and offer specific guidelines and procedures for the program. The students will receive a service honor cord to wear on their graduation robes and a Community Service Certificate of Achievement.

Preparing for Service at Kentucky State University

All students must register with the Office of Regional Stewardship (ORS) to begin their first service engagement. The ORS will conduct registration drives in UNV (University orientation) courses, and the office is also open to students year-round. All service hours must be completed with an approved agency on the ORS's Partner Agency List. Students can request agencies in their hometown be added to the list. Working with an agency who has not subscribed through the office could result in earned service hours not being accepted by the university. Hours can be tracked through existing advising software.

Service Requirements for CORD Program

Students must complete a total of 200 service hours between their freshman and senior years. 50 of these hours can be civic engagement hours, but the other 150 hours must be served with approved community agencies. Students can earn additional cords if they complete additional community service hours (please see below). Each service cord will be a different color and have significance that will be posted in the program at graduation.

Community Service Hours	Civic Engagement/Campus-Related Events Hours	Total Number of Hours	Number of Cords
150	50	200	1
200	100	300	2
250	150	400	3

Civic Engagement/Campus-Related Events

The Offic3 T69 (3T23)-3.3 (/)-1 (C)6-18.072 -2.683 T8.072 -23T23tegC4s0.6d Sw fvv1ff /2 -2. (v)16(C4)7.1s1 (v1f)-3.3 (/.1 (v)16e

per year assignments), and the student must present their enlistment contract and military form DD-214 to the Office of Regional Stewardship.

Active Duty - Enrolled KSU students who are called to active duty must present a copy of their military orders to the Office of Regional Stewardship and the University Registrar. These students can also earn up to 100 hours of service credit.

Greek Organizations

Students who are members of Greek-letter organizations may count 20 hours of community service completed with their organizations towards their personal service hours as long as it is approved through the Office of Regional Stewardship.

Transfer Students

A maximum of 100 service hours can be transferred in from previous institutions, as approved by ORS.

Impact and Assessment

At the conclusion of each community service project, supervisors will complete an evaluation form. Students must receive a satisfactory rating for hours to be accepted. Students will also write a reflective essay about their experience and their service to the community. Essays must demonstrate that students understand social issues as well as their leadership and work in eradication of those issues.

Transcript Requests

Kentucky State University has authorized The National Student Clearinghouse to provide on-line transcript ordering services. Students can order transcripts using major credit and debit cards. The cred e.8 (ds)0.9 (.)3.4 ( )-0.6 (T)-2 (5.4 ( )5.4 1 (n)

x 86

Chapter 8
ACADEMIC DEGREES and GENERAL EDUCATION REQUIREMENTS

Academic Degrees

Kentucky State University serves many ends and many needs, but the tru0.15 0 Td[Qq54 35.94 8.34 8.82 r.1 (e)1C0.001 Tw 0.168 017

Associate Degree Programs

An associate degree program is a planned and approved program of study leading to graduation with an associate degree. It is possible to complete an associate degree programen18.9 (r)0.8 (o)09 3(i)4.5 (a)-1 (t)-1.5 (e)]TJ0 Tc 0 Tw 0.862 009 3(ice0

The Major

A major consists of a planned sequence of courses usually within a single discipline; however, a major may consist of a planned group of courses from more than one discipline. The major must constitute at least 25% of the hours required for a baccalaureate degree, which is at least 30 semester credit hours of a 120-hour degree program. At least 18 semester credit hours in the major must be upper-level courses. A stu

MINORS			
Interdisciplinary Intelligence Studies	Minor	College of the Humanities and Social Sciences	School of Social and Behavioral Sciences
International Studies	Minor	College of the Humanities and Social Sciences	School of Social and Behavioral Sciences
Management	Minor	College of Business and Computational Sciences	School of Business and Technology
Marketing	Minor	College of Business and Computational Sciences	School of Business and Technology
Mass Communications & Journalism	Minor	College of the Humanities and Social Sciences	School of Humanities and Performing Arts

Tracks - the area of specialization

Some major programs consist of a core program of study within the academic unit as well as required additional study in one or more tracks selected from options within or related to the discipline. These tracks

Liberal Studies / General Education and University Requirements – for period

Liberal Studies / General Education and University Requirements – for period beginning Academic Year 2019-20 and required during Academic Year 2020-21 and beyond.

g(U)-2mie06 9 (0 Tc 0 -1.40106 9 (m)Tc 0 p (es)0034(c)d)-0.6e-1.401 Td[(A)s02 80 Td1.4 cifDC 4(cic -1.001o)C 9esuaRAit.003

Testing Services

Rising Junior Assessment—required of all university students seeking a baccalaureate degree. Assessment is scheduled after the student has earned 60 semesten.299 0 Td[(s)-4.4.2 3 Tw 0 Td[(uni)1.5 (ve)2 (rs)-2.1 (i)1.5 .1 (u5 (t)-4.3Tw 3.12

Donovan Scholars Program

Kentucky residents, age 65 and older, can be admitted to the University through the Donovan Scholars Program. Tuition and fees are waived for program members who are afforded the choice of being part-time or full-time and can choose traditional or online classes at all degree levels. Must submit a copy of your driver license to the Bursar's Office to verify age and residency.

Chapter 9
COLLEGE OF AGRICULTURE, COMMUNITIES, and THE ENVIRONMENT (CACE)

Dr. Kirk Pomper
Interim Dean
217 Cooperative Extension Building

Ms. Amy McGee
Grant and Administrative Assistant
215 Cooperative Extension Building

The Community Research Service (CRS) encompasses all areas of research in the College of Agriculture, Communities, and Environment and 1890's Land Grant Program. Our mission is to develop, advance, and disseminate scientific knowledge, improve agricultural productivity, preserve plants and animals, protect the environment, and enhance the health and economic opportunities of the people of the Commonwealth of Kentucky, as well other stakeholders around the world. The CRS also supports the mentoring of undergraduate and graduate students in research opportunities through internship and assistantship programs. The Atwood Research Facility contains 7,000 square feet of office space and 7,000 square feet of laboratory space, including a molecular genetics laboratory and nutrition laboratory. KSU's Aquaculture Research Center (ARC) includes 33 research ponds, a 3,000-square-foot hatchery houses spawning, holding, and experimental tanks, and state-of-the art histology and genetics laboratories. The Production Technology Building houses a 10,000 square foot wet lab for the study and development of aquaponics, biofloc and other intensive recycle systems.

Augmenting these facilities are KSU's 300-acre Harold R. Benson Research and Demonstration Farm and the 300-acre Environmental Education and Research Center. The KSU farm has goat, beef, poultry, and fruit and vegetable trials, and 11 acres of certified organic land, which hn15.5 (h)3.1 (i)1g (h)4.5 (e)5 (d) (r4 (o (r6)2.8 (a)-1 (n)3.1(g)-1 (5.3 ( )5.4 f(i)5.6 ( )-0.6

Aquaculture 19 credits
This minor requires the completion of a minimum of 19 credit hours in Aquaculture. A student pursuing a minor in AQU will choose courses from the list of AQU courses under the supervision of an AQU advisor.

Geospatial Technology 18 credits
This minor requires the completion of a minimum of 18 s

The Certificate in Sustainable Agricultural Systems will require a minimum of 15 credit hours of course work. There are 12 hrs. of set courses and then the student will select one additional class to help focus on a specific area of sustainable agriculture. Required courses are: AFE 334 Soil Science, AFE 340 Environ Sci. and Agroecology, AFE 425 Organic Agriculture, and AFE 445 Agriculture and & Energy. Any of the following courses could be taken as an elective for this certificate: AFE 407 Agroforestry, AFE 435 Urban Agriculture, AFE 442 Plant Propagation, or AFE 443 Apiculture/Pollination Biology. This certificate program will complement other degree programs within the academic unit. It will also provide an interim degree for those pursuing the Agriculture System option within the AFE degree. Interim degrees have been shown to impact retention by providing an intermediate goal that can be achieved by students while pursuing the B.S degree, this also benefits graduation rates and helps keep some students on track for graduation with the full degree on time.

Environmental Measurements 12 credits

The Certificate in Environmental Measurements will require 14 credit hours of course work. It is designed to give experience to students a broad array measurement techniques and protocols. There are 14 hrs. of required courses. The following 14-credit hour curriculum ladder will be offered: AQU 480 Introduction to Geographic Information Systems (GIS), AFE 489 Remote Sensing of Environment, AQU 460 Water Quality Management and AFE 461 Water Quality LAB, and BIO 417 Ecological Field Methods. This certificate program will create educational opportunities for KSU students and non-traditional students as well as high school teachers and government and private industry employees to earn a certificate in Environmental Measurements. These audiences can utilize the earned certificate for science teacher certification or as an educational/professional development credits towards their professional skills development. This certificate provides an interim degree for those pursuing the Option in Environmental Systems Students will develop basic skills in acquiring, analyzing and interpreting field data. The overall impact of this certificate program will enable students to develop unique skills to increase their chances to be recruited in special skills-oriented and high- salaried professional jobs.

Geospatial Technology and Application 12 credits

Organization of the College

The College of Business and Computational Sciences is an academic unit of Kentucky State University administered by the Dean of the College. It is organized into two academic units: The School of Mathematics and Computer Science and the School of Business and Technology.

Graduate Study Opportunities

The College also offers a program leading to the Master of Business Administration degree and the Master of Science in Computer Science. These programs are discussed in more detail in the separate Graduate Catalog.

SCHOOL OF BUSINESS AND TECHNOLOGY

B.A. – Business Administration – Business Common Professional Core Courses

Students completing the business common professional component will possess the broad skills necessary to pursue effectively their chosen track. The component provides a solid background in an organization's environment and operations and provides the analytical tools needed for problem-solving and decision-making.

Students should be able to:

- Understand the environment and operations of an organization
- Apply business-related analytical tools
- Apply professional and personal self-management skills.

Business Common Professional Core Courses – 51 credit hours		
BUA 101 Computer Applications in Business (3 cr. hr.)	BUA 204 Business Communication (3 cr. hr.)	ECO 201 Principles of Economics I Take as Gen Ed Social Science option
ACC 201 Principles of Accounting I (3 cr. hr.)	ACC 202 Principles of Accounting II (3 cr. hr.)	

Career Opportunities

Students will have career opportunities in public accounting, industry, and at all levels of government. The program also prepares students for graduate degree opportunities, such as Master of Business Administration (M.B.A.) and Ph.D. with a major in accounting or other management disciplines.

Track Courses – Accounting – 24 credit hours			
ACC 301 – Intermediate Accounting I (3 cr).	ACC 302 - Intermediate Accounting II (3 cr.)	ACC 303 - Intermediate Accounting III (3 cr.)	ACC 308 Cost Accounting
ACC 324 Accounting Information Systems	ACC 403 Auditing	ACC 462 Federal Income Tax	Professional Elective Internship, International Experience or any ACC 300 level or above course

General Business Track

The Business Administration program with a specialization in General Business is designed to provide students a broad scope of various areas of business so that students can develop an understanding and appreciation of the business world and its relationship to the global economy and society.

Mission

This program provides a broad business background for those interested in conceiving, initiating and developing new business ventures. Graduates would develop the analytical, writing, speaking and observation skills along with the confidence to become small business owners, entrepreneurs and consultants. The curriculum also has enough elective hours for students who may be interested in double majors (specialization). Graduates should be able to:

- Understand the industrial, national, and global environments in which a business operates;

Management Track

The Business Administration program with a specialization in Management is designed to provide students the necessary basic understanding of management and the managerial role.

Mission

Graduates in the management specialization area will possess knowledge and skills necessary to fill professional management positions in corporate, government, or small business in an ever-changing, globally competitive business environment. This program also provides a solid background for students who may want to

K

Free Elective

Bachelor of Science Computer Science-Mathematics 120 credits

Liberal Studies Requirements 42 hours

Core Courses 24 hours
COS 107 COS 108 COS 109 COS 301
COS 302 COS 340 COS 470

Track Courses 50 hours
COS 200 COS 281 DGE 300 COS 303 COS 310
COS 410 COS 495
MAT 120 MAT 131 MAT 132 MAT 321
COS/MAT 300-level electives (6 hours)
Natural science electives (6 hours)

Support Courses 4 hours
ENG 216
Free Elective

Bachelor of Science Computer Science-Network Engineering 121 credits

CI4dE7(.22(1 3B7t2213.9 (k)2C0(SE3408T/P <</MCID 22 BDC t (111) Tc 0 Tw ( )Tj4.3eer)5 -01/( )2.003 Tc 0.00
Liberal Studies Requirements 42 hours

Core Courses 21 hours
COS 107 COS 108 COS 109
COS 301 COS 302 COS 410

Track Courses 52 hours
CIT 111 CIT 112

Note: On the basis of placement test scores, students may also be required to complete MAT 115, or MAT 120.

Pre-Chemical Engineering Core Courses 32 hours

MAT 132	MAT 231	MAT 232	Choose one course from MAT 315, MAT 321, or MAT 333
PHY 212	CHE 301/310	CHE 302/320	CHE 425
PHY 320			

Support Courses 22 hours

- A grade of C or better must be earned in the following courses.
  COS 108 COS 109 CHE 101/110 CHE 102/120

- Two additional upper division MAT courses approved by mathematics faculty

Three 300-400 Electives: 9 hours
Free electives: 5 hours

Students interested in engineering should note that, due to possible changes in the engineering Accreditation standards and
possible curriculum changes at the University of Kentucky, some courses in the curriculum may change per0 Td[(69 (eTd[(an)4.1 (.Tj

Certificate

Cyber Security Certificate 12-13 credits

The School of Mathematics and Computer Science offers a course of study leading to a Certificate in Cybersecurity. The Certificate is available to students, regardless of major, who complete the specified coursework, and while prior technical/security experience, training, or education may be beneficial, none is required. The Certificate requires the completion of COS 281 Introduction to Information Security & Assurance (3 credit hours), and any three (3) of the following:

· COS 332 - Management of Information Security & Assurance (3 credit hours)
· COS 334 - Cyber Forensics (4 credit hours)
· COS 435 - Advanced Topics in Cyber Security (3 credit hours)
· COS 484 - Introduction to Network Security (3 credit hours)

All courses must be passed with a "C" or better.

Network Associate Certificate 12 credits

The Network Associate Certificate is for students wishing to work in the field of information technology as a network associate. In order to obtain the Network Associate Certificate a student must complete 12 hour block of courses including; CIT 111 Network Fundamentals, CIT 112, Routing and Switching, CIT 211 Network Protocols, and CIT 212 Introduction to WAN Technology. All courses must be passed with a "C" or better. The concepts and skills acquired in this program will ensure that a student is competent to sit for the internationally Cisco CCNA certification examination.

Network Professional Certificate 9 credits

The Network Associate Certificate is for students 3 (e)5 (i)t.

Chapter 11

	Total	**12**	

PHS 202	Physical Science II		
PHS 211	Earth and Environmental Science		
PHS 221	Introduction to Weather Studies		
PHS 231	Introduction to Astronomy		
PHY 130	Physics and Society		
	Total	**3/4**	
TOTAL	**38/40**		

I. STEM+ CORE

COS 107	Problem Solving, Logic and Design	3	
MAT 200	Introduction to Statistical Analysis	4	Math ACT 19 or consent of instructor
KSU 102 **OR** MSC 200	Bred Building (required for on campus students) STEM+ Leadership Seminar	1/3	KSU 101
TOTAL	**8/10**		

I. CONCENTRATION ELECTIVES

(MATHEMATICS, COMPUTER SCIENCE, BIOLOGY, CHEMISTRY, BUSINESS, AGRICULTURE)

i. **MATHEMATICS CONCENTRATION** (Mathematics, Math Education, Pre Engineering)

MAT 120	Precalculus	4	MAT 115 (MATH ACT 25)
MAT 131	Calculus and Analytical Geometry I	5	Precalculus (MATH ACT 27)
MAT 132	Calculus and Analytical Geometry II	5	Calculus 1
TOTAL	**14**		

i. **BIOSTATICS CONCENTRATION** (5 year BS/MS – BS in Math from KSU and MS in Biostatistics from U ofL)

MAT 120	Precalculus	4	MAT 115 (MATH ACT 25)
MAT 131	Calculus and Analytical Geometry I	5	Precalculus
MAT 132	Calculus and Analytical Geometry II	5	Calculus 1

TOTAL	**14**	

i. **COMPUTER SCIENCE CONCENTRATION** (Computer Science, Information Technology)

Bachelor of Arts in Liberal Studies (General Studies Option)

The General Studies Option of the Bachelor of Liberal Studies degree is a completer degree that provides an alternative four-year program for students who seek to return or come to KSU in order to complete an undergraduate education without the academic specialization involved in traditional major programs. This degree program allows reasonable latitude to satisfy individual

(1) Liberal Studies – Pre 2019 - Liberal Core Courses

(2) Core Courses 21 hours
HIS 101 HIS 102 HIS 201 HIS 202
HIS 314 or HIS 316
HIS 333 or HIS 366
BSS499

(3) Support Courses 15 hours
COS 100 ENG 211 IGS 300 POL 211 SOC 203

(4) Advised Electives 18 hours
Chosen from 300/400 level HIS courses

(5) Minor 21 hours
Student chosen minor

w wi82-9

The Bachelor of Arts in Social Science with an education track prepares graduates to seek Kentucky teacher certification in Secondary School (8th through 12th grade) with a specialization in social studies. Admission to KSU's Social Studies Teacher Education Program (TEP) has specific requirements that include introductory education coursework, a nationally standardized test, and field hours in schools. A semester of full-time student teaching (70 days) is required in the student's last semester of study and admission to student teaching also has specific requirements, including coursework and 200 verified hours of field experiences. This degree is offered in conjunction with the School of Education and Human Development,

The Psychology program at Kentucky State University leads to a major or a minor that prepares the student with a solid, well- rounded education in psychology. The study of psychology serves as a useful foundation for the pursuit of careers in business, law, medicine, social work, and the other helping professions; or majors may pursue further study in psychology at the graduate level.

Psychology major/minor students must complete PSY 200 as part of the Liberal Studies Requirements. PSY 215 Orientation to Psychology, which does not count toward the core major requirements, must be taken as a pre-requisite.

variety of professions in the Humanities, Arts and related fields. Through presentations.

in this program should maintain close contact with their Music Education advisor in the Division as well as the faculty in the School of Education and Human Development.

Bachelor of Music in Performance - The Bachelor of Music in Performance degrMuF-6.9 46( )6Tc 0 Tw 0.826 0 TdDC K7 (ai)lo.001 w

Each music major is required to designate a principal performance area of major applied study and must enroll in the corresponding course sequence until performance requirements, capstone requirements, or

This course will
provide an introduction to the various music cultures of Africa. Beginning with an overview of the study of music in wor ld cultures, ethnomusicology, we will progress to analyze the role of music in African cultures based on their religious beliefs and practices, technology, traditions, and attitudes towards change and innovation. Through selected readings, audio, video and interactive viewing and listening activities students will experience the historical, sociological and cultural processes through which African musical traditions began, grew and matured and flourished.

Students will then proceed to Music and Culture of the African Diaspora-
The Northern Hemisphere, a focused examination of the history and current scholarship of African
American music from the eighteenth through the twentieth century. This includes some of the following: African legacies, slave culture and religion, music in the early black church, folk traditions, spirituals, popular music, various composers, and especially the sociological implications of the development of protest music and its eventual evolution into Empowerment Songs. The course will utilize North American musical forms to explore sociological and artistic parallels, especially as they relate to the ability of a displaced people to use music and related art forms
to resist abasement and oppression. This examination will employ Testifycation Theory as the basis of
these explorations

The culminating and final course, Music and Culture of the African Diaspora-
The Southern Hemisphere, will explore the richness
and diversity of Latin American and Caribbean music, and facilitate an appreciation for the cultural connections arising from their African legacies, The course will utilize Caribbean musical forms to explore sociological and artistic parallels, slave culture and

MUI 398: Special Topics in Music Production. An exploration of contemporary topics in music production. May be repeated once for credit for different topic. Prerequisite: Consent of instructor. Credit 1 to 3 hours. Topics

(1) Liberal Studies Requirements –

Pre 2019-20 Liberal Studies Core – 43 credit hours

(2) Core Courses – 36 hours

ENG 211 or 215 ENG 214 ENG 313 ENG 322 ENG 323 ENG 324 ENG 325
ENG 409 ENG 411 ENG 413

One literary genre course: ENG 330

One language class chosen from the following: ENG 311 ENG 315 ENG 317

(3) Track Courses

TRACKS				
Creative Writing Track	Choose Two (2) ENG 342 ENG 343 ENG 345 ENG 346	ENG 490	ENG 499	
Professional Writing Track	Choose One (1) ENG 216 ENG 343 ENG 499	ENG 434	JOU 204	JOU 364
Literature Track	ENG 398	ENG 399	ENG 415	ENG 499

(4) Free Electives

29 credit hours

Minor Creative Writing - 18 credits

The minor in creative writing requires the completion of 18 credit hours by completing: One of the following – ENG 214, ENG 216, or JOU 204; and one of the following – ENG 311, 314, or 317; and ENG 342, 345, 346 and 490.

Minor English - 21 credits

A minor in English requires the completion of 21 semester credit hours in the following courses: ENG 214 and 313; one of the following: ENG 311, 314, or 317; either ENG 322 or 323; either ENG 324 or 325; either ENG 411 or 415 and one 300/400level ENG course.

In addition to the above courses, a teaching minor in English requires the completion of 24 semester credit hours including ENG 390. These requirements are in addition to ENG 101, 102, and 211 or 215.

MASS COMMUNICATION AND JOURNALISM

The health of a democracy is deeply connected to the health of a free press. Thomas Jefferson thought so highly of the importance of the press' role in guarding the people's rights that he stated: "If I had to choose between a government without a free press and a free press without government, I would choose the latter." From the hey-day of its nationally celebrated civil rights leader and alumnus Whitney M. Young, Jr. to its connections with Kentucky's black owned or operated newspapers and indeed throughout its some 120 years of gre"i2

'a9-55 d22Sw 7.6n4. ()Tj-0 6w-1TJ12 w 35.449 0 Td1.'w 79J-0 Tc(c0.0y41.2573 Td(d198)8s.9 (tm m()-6 0 (l3-4j 21)-.9-1)130.004

MODERN FOREIGN LANGUAGES a thTj3-2019ork (i)0.5 (g)-5 (n0.

Coursework in American Sign Language, French, and Spanish is offered by members of the

Honors class sizes range from 10 to 15 students. Whitney Young Scholars take part in all activities of the University, such as social and academic clubs, student government, choir, band, and intramural/intercollegiate athletics. Students have an opportunity to put the leadership skills that they learn in classes to practical use by serving on the Whitney Young Student Council. The Council was originally created by student initiative and organizes service and social events and acts as a forum for student suggestions and concerns.

INTERNATIONAL STUDIES

Students at Kentucky State University must be prepared to participate and compete in our increasingly globally connected world. Thus, they need to be exposed to an international curriculum that enables them to interact in, understand, and appreciate cultures other than their own.

Minor - International Studies 18 credits

A minor in International Studies requires the completion of 18 semester credit hours. Required courses for the minor include either Introduction to Geography (GEO 102) or Seminar in Africana Studies

Chapter 12
College of Natural, Applied, and Health Sciences (CNAHS)

Dr. Wanda Gonsalves
Interim Dean
412 Hathaway Hall
Phone: (502) 597-6129
E-mail: wanda.gonsalves@kysu.edu

Mr. Jack Wollman
Administrative Assistant III
221 Betty White
Phone: (502) 597-6426
E-mail: jack.wollman@kysu.edu

Academic Units and Degrees Offered

School of Natural Sciences

- X B.S. in Biology
- X B.S. in Chemistry

SCHOOL OF NATURAL SCIENCES

Pre-Health Professional academic advisors at Kentucky State University work closely with pre- medical students to ensure that they fulfill all of the requirements for admission to professional schools in a timely manner. Shadowing physicians, volunteer work and summer research work are highly valued for admission. Students will apply through a special website, AMCAS (American Medical College Admission Service) and/or AACOMAS (American Association of Colleges of Osteopathic Medicine Application Service), one year before they desire admission. Students who need more information about a pre-med track should consult the Pre-Health Professions advisors as early in their academic careers as possible.

Dentistry

To apply to dental school, students must complete at least two years of biology with laboratory, one year of general chemistry with laboratory, one year of organic chemistry with laboratory, one year of physics with laboratory, one year of college mathematics or one semester of calculus, one year of English, and other courses that will help assure success, such as those in advanced communication skills, logic, or computer science, and psychology.

Pre-Health Professional academic advisors work closely with pre-dental students to ensure that they fulfill all of the requirements for admission to professional schools in a timely manner. Each applicant is required to take the Dental Admission Test (DAT), which is designed to measure general academic ability and scientific knowledge of pre-requisite courses. Shadowing dentists, volunteer work and summer research work are highly valued for admission. Students will apply through a special website, ADEA Associated American Dental Schools Application Service (AADSAS), one year before they desire admission. Students who need more information about the pre-dental track should consult the Pre-Health Professions advisors as early in their academic careers as possible.

Optometry

Optometry is the profession of examining the eyes f9 (ar)9.w 0 -1/0.00xQ

Each applicant is required to take the Pharmacy College Admission Test (PCAT), which is designed to measure generl to A

IOLOGY

iology is the scientific study of living systems. The Bachelor of Science in biology curriculum includes the study of rganismal diversity, cell biology, physiology, genetics, evolution, and ecology. Students are encouraged to master basic rinciples of scientific inquiry while familiarizing themselves with the traditional aspects of a sound liberal education.

he School of Natural Sciences offers programs leading to the Bachelor of Science degree in Biology with four options: eneral Biology, Pre-Professional, Biotechnology, and Specialization in Biology Education. Details on the former may be ound elsewhere in this Catalog in the sub-section on the School of Education and Human Development. A minor in iology is also offered.

ajor in Biology

he Bachelor of Science in Biology at K04.2l 14.0et a606 T((D E)11.2 6.0 3 0 w 7 5 2 e f T w] T a m 3 r 3 e 0 2 T w 0 4 . 2 1 4 . 1 (d u 2 . r t 0 T d (-) T j - 0 . 0 0

Pre-Health Professional

For more information on our Pre-Health Professional programs (examples are Pre-Med, Pre-Vet, Pre-Pharm, Pre-Dental), please contact the School of Natural Sciences at Natural.Sciences@kysu.edu.

Pre-Biological Engineering

For more information on our Pre-Biological Engineering program, please contact the School of Natural Sciences at Natural.Sciences@kysu.edu.

Biology Minor 21 credits

A minor in biology requires the completion of a minimum of 21 semester credit hours in Biology. A student pursuing a minor in Biology will be required to successfully complete BIO 111, 210, and 212. Additional courses are chosen from the remaining core requirements (BIO 302, 303, 307, 316, 408). One course may be selected from the biology electives to complete the required

School of Nursing and Health Sciences

Licensed practical/vocational nurses may qualify to test-out of selected courses in the A.A.S. curriculum. The A.A.S. plan of study identifies those courses that may be considered for test-out by examination.
Licensed practical or vocational nurses interested in the test-out by examination process should contact the School of Nursing and Health Sciences for details and guidance.

All students must satisfactorily complete the minimum semester credit hours delineated in the A.A.S. plan of study, as well as any other requirements established by the School of Nursing and Health Sciences, to qualify for degree candidacy. Students must a

Applications to the A.A.S. program are accepted for fall admission only. Applications are processed through Nursing CAS, the centralized application service for nursing. All application materials must be received before the March 15th deadline of the year the student desires to enter the A.A.S. program. Applications are not transferrable from year to year. Interested students must reapply annually, by the March 15th submission deadline, for fall admission consideration. Visit www.nursingcas.org to start your application or log into an existing account.

Competitive Selection

A student must earn competitive admission to the School of Nursing and Health Sciences once prerequisite course

Spring (Semester 2) 6n cm T r0q54.36.54.0230.36d.78 re38020 655.92 Tm(3)T49068 66 [(N[(B)-1.417r241 0.78 r2B)1 115A1 (h/

BIO 204	Fundamentals of Microbiology	3
NUR 114A	Adult Health 1	4
NUR 114AP	Adult Health 1 Practicum	3
NUR 115A	**Beh/MCID** Beh/M	

BACHELOR OF SCIENCE IN NURSING (B.S.N.)

The School of Nursing and Health Sciences offers two (2) path options to the Bachelor of Science in Nursing (B.S.N.): a pre-licensure option for students who do not hold a nursing license and an option for registered nurses. The B.S.N. program prepares students for careers as professional nurses caring for patients in hospitals and in community agencies such as public health services, schools, homes, and industries. In addition to providing comprehensive, efficient, and appropriate care service to individuals, families, groups, and communities, the program provides a basis for the nurses' role as advocate, innovator, and collaborative leader. The program also provides a foundation for graduate study in nursing.

Pre-licensure Option

The pre-licensure option is a traditional four-year plan of study that prepares the student to write the licensure examination for registered nurses (NCLEX-RN®) and subsequently enter the workforce as a professional registered nurse. The B.S.N. pre-licensure option requires 122 semester hours of study and, is intended for students beginning their education in nursing. The B.S.N. pre-licensure curriculum is organized in a sequential, simple-to-complex

Applicants with Foreign Education

Applicants to the B.S.N. program pre-licensure option whose first language is not English must score at least 550 (paper) or 80 (Internet-based) on the Test of English as a Foreign Language (TOEFL). Registered nurses educated outside of the United States are required to present verification of having passed the Commission on Graduates of Foreign Nursing Schools (CGFNS) examination. In addition, liberal arts and general studies credits earned at institutions of higher learning outside of the U.S. must be evaluated by the World Education Service (WES), Educational Credential Evaluators (ECE), or International Academic Credential Evaluators (IACEI) for determination of transferability prior to submitting an application for admission to the B.S.N. program.

Admissions

Applicants to the B.S.N. programs whose first language is not English must score at least 550 (paper) or 80 (Internet-based) on the Test of English as a Foreign Language (TOEFL). Registered nurses educated outside the United States are required to present verification of having passed the Commission on Graduates of Foreign Nursing Schools (CGFNS) examination. Liberal-general studies credits earned at institutions of higher learning outside of the U.S. must be evaluated to determine transferability prior to submitting an application for admission to the RN-BSN program

Please note that meeting the minimum requirements for admissions consideration does not guarantee admission. Each application is holistically reviewed by faculty who recommend to the administrative corpus the student applicants who appear to be best qualified. A personal interview may be required. Admission may be offered

Expenses

Nursing students are charged the

SOC	203	Principles Sociology	3
CHE	209	Survey General, Organic & Biochemistry	4
ALH	205	Terminology for Health Professionals	2
BSS	300	Statistics for Behavioral & Social Sciences	3
****		Foreign Language I Ã	3
			15 credit hours

SPRING (Semester 4)* [Apply by March 15th for Program Entry]

NUR	200B	Introduction to Genetics & Molecular Therapeutics	3

FALL (Semester 6)

NUR	345B	Nursing Care in Behavioral Health	3
NUR	345BP	Nursing Care in Behavioral Health Practicum	2
NUR	405B	Nursing Care of Women, Children and Families	3
NUR	405BP	Nursing Care of Women, Children and Families Practicum	2
NUR	421B	Professional Role 2: Improving Health Systems	2
			12 credit hours

YEAR 4

FALL (Semester 7)

NUR	440B	Nursing Care of Adults with Complex Health Disorders	5
NUR		Nursing Care of Adults with Complex Health Disorders Practicum	
	440BP		3
NUR	450B	Nursing Care of Older Adults	2
NUR	450BP	Nursing Care of Older Adults Practicum	2
NUR	451B	Professional Role 3: Nursing Research	2
			14 credit hours

SPRING (Semester 8)

All students must satisfactorily complete the minimum semester credit hours delineated in the B.S.N. pre- licensure plan of study, as well as any other requirements established by the School of Nursing and Health Sciences, to qualify for degree candidacy. Students must also meet established School of Nursing and Health Sciences grctattmsm(c)-3.1 51 (de)1(n)0.8 (n)

Students are admitted in the fall and spring for the RN-B.S.N. option. The application deadline for fall admission consideration is March 15th. The application deadline for spring admission consideration is November 15th. Visit www.nursingcas.org to start your application or log into an existing account.

Applicants to the School of Nursing and Health Sciences are expected to be capable of completing the entire nursing curriculum and of earning a B.S.N. degree. Nursing is a practice discipline with cognitive, sensory, affective, and psychomotor performance requirements. The school's technical standards provide an objective measure on which to base informed decisions about whether individual students will be able to participate in the nursing program. Technical standards also help students determine whether they will need accommodations or modifications in order to participate. Exemplars of

NUR 435R	Nursing in Global Healthcare Systems	3		
NUR 436R	Senior Capstone Seminar	3		
		9 credits		

Chapter 13
College of Public Service and Leadership Studies (CPSLS)

Dr. A. Christopher Hayden
Interim Dean
210A Hathaway Hall
Phone: (502) 597-6893
E-mail: arthur.hayden@kysu.edu

Ms. Karen Brown
Administrative Assistant III
210 Hathaway Hall
Phone: (502) 597-7015
E-mail: karend.brown@kysu.edu

Academic Units and Degrees Offered

School of Education and Human Development
B.A. in Elementary Education and Teaching
B.A./B.S. in Physical Education

School of Government, Policy, and Justice Studies
B.A. in Criminal Justice
B.A. in Political Science

School of Public Administration

School of Social Work
B.A. in Social Work

Minors
Athletic Coaching
Athletic Training
Criminal Justice
Gerontology
Political Science
Public Administration*
Sports Management
Recreation

*not offered in current AY

The College of Public Service and Leadership Studies at Kentucky State University offers undergraduate and graduate programs that prepare students to combine their broad liberal backgrounds with specialized knowledge and training that applies both in their everyday lives and in their professional careers. The College offers programs leading to baccalaureate degrees in the fields of Education, Physical Education, Criminal Justice, Political Science, and Social Work. The College also offers master's degrees in public administration and Special Education. Kentucky State University is a state-approved and nationally accredited Educator Preparation Provider (EPP), offering eight undergraduate and one graduate Teacher Education Programs (TEPs).

Four of the TEPs are housed in the School of Education and Human Development and are provided in the catalog sections pe-0.0(e)jET1 g52.5 953Tj0.003 Tc -0.003 Tw 0.216 0 Td[()TjETEMc Tw 0.832 0 Td(68j0.003 Tc -0.002 Tw 0.222 0 Td[(S

The University's liberal study requirements strengthen all baccalaureate programs within the College and are compatible with the accreditation requirements of the

K

Professional Standards

Instruction and assessment are aligned with standards that are determined by state and national organizations. These standards and organizations include the following:

- Council for the Accreditati0 0 m o255 0 Td[(ci)4.5Accr 1..4 (a)-6 Tfucah2staana0 Tw (h20-1.3a)0.6 (d[(ci)4. ( )c)5.9 (c)-(
4 (10.587)1-6.Tw (h20-1.3d-0.002 Tw5(l)4.60.587f(e)4.9 (A40 (rh)5.4 (e)5.1 (n)-1.9 (0)4.9p11.9 (cr)14.8ci)4.5A) z(-0.6 e)5.1 10.587 p11.9 ((h

AdminR

Bachelor of Arts
Elementary Education and Teaching 121 credits
Liberal Studies Core 43 credit hours
Must include MAT 115 and EDU 204

Education Component: 45 credit hours

EDU 202 Education Core	EDU 203	EDU 302 45 hours	

B.S. Biology (Education Track) 128-129 credits
General Ed- 47 hours
Education Core- 36 hours
Supported Electives- 0 hours

II.	**EDUCATION CONTENT**	
BIO 111	Principles of Biology (this requirement met in General Studies)	
BIO 210	General Zoology	3
BIO 212	General Botany	3
BIO 302	General Microbiology	4
BIO 303	Human Physiology	4
BIO 307	Genetics	4
BIO 316	Ecology	4
BIO 401	Biology Seminar	1
BIO 408	Cell Biology	4
BIO 410	Special Problems in Biology	2
BIO elective		3-4
CHE 101	General Chemistry (this requirement met in General Studies	
CHE 110	General Chemistry I Lab	1
CHE 102	General Chemistry II	3
CHE 120	General Chemistry II Lab	1
MAT 120	Precalculus (this requirement met in General Studies)	
PHY 207	Physics for Biological Sciences I	4
PHY 208	Physics for Biological Sciences II	4
Total		**45-46**

B.A. Math (Education Track) 121 credits
General Ed- 49 hours
Education Core- 36 hours
Supported Electives- 3 hours

III.	**EDUCATION CONTENT**	
MAT 132	Calculus & Analytic Geometry II	5
MAT 231	Multivariate Calculus	3
MAT 300	Introduction to Advanced Math	3
MAT 307	Linear Algebra	3
MAT 312	Mathematical Programming	3
MAT 321	Probability and Statistics I	3
MAT 326		

B.A. English (Education Track) 126 credits
General Ed- 45 hours
Education Core- 42 hours
Supported Electives- 0 hours

IV.	EDUCATION CONTENT	
ENG 214	Persuasive Writing	3

B.A./ B.S. Physical Education

Bachelor of Arts
Physical Education (non-teaching) 120 credits
Liberal Studies Requirements
45hours
Core Requirements 63 hours
I. CORE REQUIREMENTS

HED 107	First Aid and Safety	1
HED 221	Personal Health/Lifetime Fitness	2
HED 222	Personal Health/Lifetime Fitness II	2
PHE 209/240/351	Beginning Swimming/Intermediate Swimming/Lifeguard Training	1
PHE 218	Body Conditioning	1
PHE 215	Team Sports Concepts	2
PHE 216	Individual Sports Concepts	2
PHE 301	Human Anatomy for PE and Sport	3
PHE 302	Human Physiology for PE and Sport	4
PHE 320	Adaptive Physical Education	3
PHE 323	Principles of Physical Education	3
PHE 324	Sports Injury: Prevention/Care	3
PHE 330	Physiology of Exercise	4
PHE 331	Kinesiology/Biomechanics	4
PHE 332	Motor Development/Motor Learning	3
PHE 333		

B.S. Physical Education and Health (teaching) 122 credits
General Ed- 45 hours
Education Core- 47 hours
Supported Electives- 0 hours
PHYSICAL EDUCATION CORE REQUIREMENTS

HED 107	First Aid and Safety	1
HED 222	Personal Health/Lifetime Fitness II	2
HED 300	Foundations of Health Education	3
PHE 209/240/351	Beginning Swimming/Intermediate Swimming/Lifeguard Training	1
PHE 218	Body Conditioning	1
PHE 215	Team Sports Concepts	2
PHE 216	Individual Sports Concepts	2
PHE 301	Human Anatomy for PE and Sport	3
PHE 320	Adaptive Physical Education	3
PHE 323	Principles of Physical Education	3
PHE 324		

SCHOOL OF GOVERNMENT, POLICY, AND JUSTICE STUDIES CRIMINAL JUSTICE

The baccalaureate degree program in Criminal Justice is designed to prepare students for careers in law enforcement, community and institutional corrections, court services, and other criminal justice-related areas as well as for admission to law school. It also provides students with the fundamentals for advanced study in graduate school.

Bachelor of Arts – Criminal Justice	
Liberal Studies Requirements (1)	37-38 credit hours
Core Courses (2)	48 credit hours
Support Courses (3)	9 credit hours
Free Electives (4)	25-26 credit hours
TOTAL	120-121 credit hours

(1) Liberal Studies Requirements – Using the new 2019 Liberal Studies Core

(2) Core Courses – 48

(1) Liberal Studies Requirements – 45 credit hours

Pre 2019 Liberal Studies Core

(2) Core Courses – 54 credit hours

Core Courses

K

Chapter 14
GRADUATE PROGRAMS

Office of Graduate Studies
Dr. Kenneth Andries, Acting Director
113 Cooperative Extension Building
Frankfort, KY 40601

Phone: (502) 597-5094
E-mail: grad@kysu.edu

For all information about graduate studies, see the separate Graduate Catalog which can be found at this link: http://kysu.edu/wp-content/uploads/2017/01/2017-2018-KSU-Graduate-Catalogue_FINAL-Version_1222017.pdf

Graduate Studies

Kentucky State University offers programs of study that lead to eight master'

K

FACULTY

ADAMS, ANTHONY

Professor, School of Social and Behavioral Sciences (2019); Ph.D., University of Michigan

AMADIFE, EGBUNAM N.

Professor, School of Government, Policy, and Justice Studies (1996); B.A., School of International Training; M.A., University of Rhode Island; Ph. D., University of Connecticut.

AMADIFE, NKECHI G.

Professor, Library (1996); N.C.E., Federal College of Education (Technical), Lagos, Nigeria; B. Educ., University of Benin, Nigeria; M.L.I.S., University of Rhode Island; Ph.D., University of Kentucky.

AMUSAN, IBUKUN

Assistant Professor, School of Mathematics and Computer Science and Sciences (2014); B.S., University of Swaziland, Swaziland; B.S., University of Witwatersrand, South Africa; M.S., University of Cape Town, South Africa; Ph.D., Florida State University.

ANDRIES, KEN

Associate Professor, School of Agriculture, Food and Environment (2012); B.S. Mississippi State University; M.S. Louisiana State University; Ph.D., Kansas State University.

ANTONIOUS, GEORGE

Professor, School of Agriculture, Food and Environment (2012); B.S., University of Alexandria, Alexandria, Egypt; M.S. University of Alexandria, Alexandria, Egypt; Ph.D., University of Alexandria, Alexandria, Egypt.

ASAMOAH, SAMUEL

Visiting Assistant Professor, School of Business and Technology (2017); B.S. University of Ghana; MBA Pittsburgh State University Ph.D. Northcentral University

BALLARD-KANG, JENNIFER

x xPh it.

BROOKS, F. ERIK

GILLIAM, ERIN

Assistant Professor, Division of Behavioral and Social Sciences (2014); B.A., Kentucky State University; M.A., University of Kentucky.

GLASS, CYNTHIA

OBIELODAN, JAMES B.

Professor, School of Business (2001); B.Th., Igbaja Theological Seminary; B.A., Wheaton College; M.A., Michigan State University; Ph.D., Michigan State University; M.B.A., Michigan State University.

OGUNADE, MIKE

Assistant Research Professor, CACE (2017)

OLDEN, FARIDA

Assistant Research Professor, CACE (2013); B.S., University of Hasnaoua, Tizi-Ouzou, Algeria; M.S., International Center for Advanced Mediterranean Agronomic Studies, Zaragoza, Spain; Ph.D., Justus Liebig University, Giessen, Germany.

OWENS, COURTNEY

Interim Assistant Extension Administrator and Assistant Extension Professor, CACE (2016)

POLSON, SUZETTE M.

Associate Professor, School of Mathematics and Computer Science and Sciences (1997); B.S., Davidson College; Ph.D., Emory University.

POMPER, KIRK

Professor, Division of Agriculture, Food and Environment (2012); B.S., University of Minnesota; M.S., University of Minnesota; Ph.D., Oregon State Univero ero S7TD[(O0.002 T.7 (a)-4)1.684T,6 (S)-4 (c)-r U Td[(Em3 (t)1.4u)(M)-1.3 AEm7A ty .e

SIMON, MARION

Extension Professor, CACE (2012); B.S., University of Kentucky; M.S., University of Kentucky; Ph.D., Oklahoma State University.

ty Provost, Assistant Professor, School of Business (2000); B.S., University of Kentucky; M.S., University of ucky; M.A., University of Kentucky.

WEBSTER, THOMAS

Associate Professor, Division of Agriculture, Food and Environment (2012); B.A., Oberlin College; M.S., University of California;

WESTBROOK, JOHNNIE

Associate Extension Administrator and Associate Extension Professor, CACE, (2016)

WHITTINGHILL, LEIGH

Assistant Professor, Division of Agriculture, Food, and Environment. (2017)

WILLIAMS, FREDERICK

Assistant Professor, School of Government, Policy, and Justice Studies; Coordinator of Criminal Justice Education (2019); B.S. Tennessee State University; M.S. University of Louisville; Ph.D. University of Louisville

YOUNG, ALLISON

Associate Extension Professor, CACE, (2016) Ph.D., University of California.

ALLEN, HOMER E. Associate Professor, School of

Assistant Professor, Department of Industrial Education; B.S., Kentucky State University; M.A., Kentucky State University. Kentucky State University, 1968–1985.

BEARDEN, WILLIAM

Professor/Chairman, Department of Industrial Education; B.S., Tuskegee Institute; M.S., Bradley University; Ed.D., Bradley University. Kentucky State University 1970–1987.

BENNETT, CHARLES H.

Professor/Dean, College of Mathematics, Science, Technology and Health; B.S., Stetson University; M.A., Wake Forest University; Ph.D., University of Kentucky. Kentucky State University, 1977–2012.

BOURGOIS, LOUIS G., III.

Professor, School of Humanities and Performing Arts; B.Mus.Ed., Murray State University; M.Mus., University of Louisville; Kentucky State University, 1986–2013, D.M.A., Ohio State University.

CHACKO, C. ABRAHAM

Professor, Department of Education; B.R.E., Spicer Memorial College, India; M.A., Philippine Union College; M.S., Indiana University; Ed.D., Indiana University. Kentucky State University, 1969–1986.

CHAWLA, LOUISE

Associate Professor, Whitney Young School; B.A., Hunter College; M.A., Bryn Mawr College; Ph.D., City University of New York. Kentucky State University, 1984–2006.

CHEANEY, HENRY E.

Professor, Area of History and Political Science; A.B., Kentucky State University; A.M., University of Michigan; Ph.D., University of Chicago. Kentucky State University, 1936–1982.

CHEANEY, ORA–MAE

Assistant Professor, Department of Home Economics; B.S., Kentucky State University; M.S., R.D., Indiana University. Kentucky State University, 1957–1976.

COLTHARP, MARCELLUS T.

Professor, School of Mathematics and Computer Science and Sciences; B.S., The University of Texas at Austin; Ph.D., The University of Texas at Austin. Kentucky State University, 1969–1996.

CONNER, EDWIN L.

Instructor, School of Education and Human Development, Director for Exum Center, College of Public Service and Leadership Studies (1989); B.S., Kentucky State University; M.Ed., University of Pittsburgh.

GREENLAND, THOMAS G.

Professor of Psychology; B.A., University of Cincinnati; M.A., University of Hawaii; Ph.D., University of Kentucky. Kentucky State University, 1973–2004.

HARRIS, LEE CHARLES

Associate Professor, School of Nursing; B.S., Kentucky State University; Diploma, Freedman's Hospital School of Nursing; M.S.P.H., University of Kentucky; M.P.H., Johns Hopkins University; Ed.D., University of Kentucky. Kentucky State University, 1968–1973, 1975–1999.

Hv–

Assistant Professor, Department of Nursing; Diploma, St. Joseph Infirmary School of Nursing; B.S.N., University of the State of New York; M.S.N., University of Louisville; M.S., University of Louisville. Kentucky State University, 1975–2003.

McDANIEL, KAREN

Professor/Director, Blazer Library. B.S., Berea College; M.S.L.S., University of Kentucky. Kentucky State University, 1975–1983; 1989–2005.

McLENDON, ETHEL L.

Assistant Professor, Department of Social Work and Criminal Justice; B.A., North Carolina College; M.S., Tennessee State University. Kentucky State University, 1963–1986.

MILLER, DOROTHY C.

Associate Professor of English; B.A., Cumberland College; M.A., Kentucky State University; Ed.S., Bowling
–

Presidents of the University

Mr. John H. Jackson	1887–1898, 1907–1910
Mr. James E. Givens	1898–1900
Mr. James S. Hathaway	1900–1907, 1910–1912
Mr. Green P. Russell	1912–1923, 1924–1929
Mr. Francis M. Wood	1923–1924
Dr. Rufus B. Atwood	1929–1962
Dr. Carl M. Hill	1962–1975

Chapter 16
COURSE DESCRIPTIONS

Course descriptions are listed alphabetically by subject prefix on the following pages. Each course description begins with a three-letter subject prefix followed by a three-digit course number and the course title. The number on the right of each course description gives the semester credit hours for that course. If a course includes laboratory or other special activities, that information is contained in the course description. Prerequisites are also listed. A prerequisite is a course, experience, or other required preparation that must be completed before the student is permitted to enroll in the course. Courses marked with an asterisk (*) meet the oral communication competency requirement. The subject prefixes for the course descriptions are as follows:

Course Prefix	Subject	Page Number	Course Prefix

ACC 301: Intermediate Accounting I. A comprehensive study of

agents and their management, including various treatments and therapies. Students in the Vet-Tech option will be introduced to various aspects of veterinary disease prevention, vaccinations, scientific principles involved in most commonly employed diagnostic techniques, their working knowledmdu teco.8 (o)1elut. :mr(,)3.4 (L.1 (h)-1. (teco.8 (o)4.9 (r)3-1.5(

AFE 322: Livestock Anatomy & Physiology Anatomy and Physiology of Livestock is designed for students entering

AFE 408: Anesthesia and Surgical Procedures. This course will focus on both background knowledge and practical applications of anesthesia-related skills for veterinary technicians. Prerequisites: BIO 308 and AFE 305 or consent of instructor. Credit: 3 semester hours. 0 Td[(E0)-0.9 (4)-3.8 1l --3.3 d p3 Td6 0 Tdcent3.1 (hni)1.5 um --30.9 (.)3.4 II.(n)3.1 A(s)13.9 (

AFE 440: Ornamental and Landscape Plants. This course provides an understanding of the identification, morphology, classification, nomenclature and adaptability of ornamental plants in landscape environments. The use of plants in home, business, and park landscapes to reduce water use, pollutants, energy, and labor inputs is examined. Credit: 3 semester hours.

included to provide a foundation for the development of professional skills as an Air Force Officer. Students refine their leadership and managerial abilities by organizing and managing a quasi-military unit. Prerequisite: Acceptance into POC or approval of PAS; Co-requisite: AFS 312. Credit: 3 semester hours.

AFS 312: Leadership Laboratory III. A course designed and focused on developing advanced leadership skills. Students fill the mid-level management function within the cadet corps. The course involves the planning and controlling of military activities of the cadet corps, and the preparation and presentation of briefings and other written and oral communications. Pass/fail only. Co- requisite: AFS 311. Credit: 1 semester hour.

AFS 313: Aerospace Studies III. A study of leadership with specific emphasis on the Air Force leader. Includes

ALLIED HEALTH

ALH 105: Dimensional Analysis for Pharmaceutical Calculations. This course focuses on those components of safe medication calculation and administration. The emphasis is on accuracy of calculation and the critical thinking involved in patient medication safety. Required for all pre-licensure nursing majors.

ALH 110: Terminology for Health Care Professionals. This course provides the student with basic medical language skills including pronunciation and definitions as a foundation for reading and understanding medical reports, and communicating with healthcare professionals. Required for all pre-licensure nursing majors.

ARMY MILITARY STUDIES

(These classes are offered through the ARMY ROTC program at the University of Kentucky. Call 859/257- 6865 for more information.)

Basic Courses

AMS 101: Introduction to the Army. This introductory level course is designed to give students an appreciation for the role the Army currently plays in our society. The course also covers some of the basic skills necessary to today

ASP 306: Economic Development in the Diaspora. This course examines the global political economic system and its impact on people of the African Diaspora. Credit: 3 semester hours.

ASP 466: Special Topics in Africana Studies. A seminar for the analysis and discussion of special topics within the discipline of Africana studies. May be repeated twice for credit. Prerequisite: Junior standing or consent of instructor. Credit: 3 semester hours.

ASP 489: Field Work in the Black Community. Placement in a community based, international or local human service, non-governmental organization, or governmental agency or corpoormuAiznia Pr-0ounin41.401 TD21bu(y)80.19stanaAS

BIO 309: Parasitology. A study of epidemiology, pathology, diagnosis, and control of parasites of man and other animals. (Two hours of lecture and four hours of laboratory per week). Prerequisite: BIO 210 or consent of instructor. Credit: 4 semester hours.

BIO 315: Immunology. Immune system, immunoglobulin structure, antigenicity, antigen- antibody reactions, phylogeny of immune responses, and antibody formation. Immunity to bacterial and viral infections, allergies, and graft-host reactions. (Three hours of lecture/discussion/ demonstration/laboratory per week). Prerequisite: Consent of instructor. Credit: 3 semester hours.

BIO 316: Ecology. A study of the interrelationships of living organisms and their environment. This course draws from

independent experimental or library research project. May be repeated once for credit. Prerequisite: Consent of instructor. Credit: 2 semester hours.

BIO 411/AQU 411: Fish Diseases. An overview of fish diseases including the pathogens and conditions that result in disease. Preventive and corrective measures are also examined. (Three hours of lecture per week). Prerequisite: Consent of instructor. Credit: 3 semester hours.

BIO 412/AQU 412: Fish Morphology & Physiology. An overview of fish morphology and physiology with emphasis on comparative and adaptive aspects among Osteichthyes (true bony fish). (Three hours of lecture, two hours of laboratory per week). Prerequisite: Consent of instructor. Credit: 4 semester hours.

BIO 413/AQU 413: Aquatic Ecology. This course investigates the interaction of aquatic organisms with their biotic and abiotic environment. Sampling and laboratory methods of limnological analysis will be covered. (Three hours of lecture, three hours of laboratory per week). Credit: 4 semester hours.

BIO 414/AQU 414: Basics of Fish Diseases. An online course with no lab. Students are introduced to bacteria, parasites, viruses and environmental factors that cause disease in aquatic animals. Prevention, identification and treatment of these diseases are included (course intended for non-aquaculture majors). Prerequisite: Consent of Instructor. Credit: 3 semester hours.

BIO 415TJ0 Tc 0 Tw 3.754 0 T.383 0 Td213 0 .6 n

BIO 432: Biotechnology II. This course offers an introduction to the molecular tools used in DNA biotechnology including purification of nucleic acids, cutting and joining DNA, vectors, sequencing DNA, genomic and cDNA libraries,

K

BUA 402: Senior Seminar. This is the final course in the 3part seminar series required for all undergraduate business students. In this course students will finalize their electronic professional portfolio and review business topics and principles on a comprehensive and integrative basis to prepare graduating seniors for a capstone assessment. The course also administers a standardized assessment. Prerequisites: Senior standing, Corequisite MGT 490. Credit: 1 semester hour.

BUA 480: Business Internship. Off-campus on-the-job employment related to the discipline of business management. Prerequisite: junior or senior classification and consent of chairperson. Credit: 3 semester hours.

BUA 499: Independent Study in Business Administration. Research and in-depth study of a particular business administration concept or problem under the guidance of a faculty member. Prerequisite: Senior classification and consent of chairperson. Credit: 3 semester hours.

CHILD DEVELOPMENT AND FAMILY RELATIONS

CDF 101: Introduction to Early Childhood Education. Examines various program models and philosophies of early childhood education and includes a basic introduction to the overall needs of young children. (Lecture, field trips, and observation). Credit: 3 semester hours.

CDF 102: Family Development. Examines the stages of the family life cycle and interpersonal relationships among family members. (Lecture and discussion). Credit: 3 semester hours.

CDF 203: Child Development I. This course examines the physical, mental, social, and emotional growth of a child from conception through age three. Providing quality care and education of infants and toddlers. (Lecture and observation). Credit: 3 semester hours.

CDF 204: Child Development II. A lecture/observation course designed for child development and early education (K-4) majors which examines the physical, cognitive, social, and emotional growth of the child from age four through eight years. (Lecture and observation). Prerequisite: CDF 203. Credit: 3 semester hours.

CDF 206: Music, Games and Creative Experiences for Young Children. Study of the creative process and imagination of young children. Appropriate procedures for the establishment of a climate conducive to creativity in preschool learning environments. Prerequisite: CDF 204. Credit: 3 semester hours.

CDF 305: Materials and Methods in Early Childhood Education. A study of content, methods, and materials for teaching young children in a group setting. Prerequisites: CDF 203 and CDF 204. Credit: 3 semester hours.

CDF 315: Child Guidance. Intense study of child development theories and guidance techniques. (Two hours lecture and two hours laboratory). Prerequisites: CDF 203 and CDF 204. Credit: 3 semester hours.

CDF 316: Teacher's Role in Family/School Relations. A study of current principles and practices and the analysis of factors which enhance the teacher's role in family/ school relations. (Lecture and report-writing). Credit: 3 semester hours.

CDF 318: Assessment of Young Children. A study and application of various assessment instruments and evaluative techniques utilized in determining the needs of children birth through five years. Prerequisites: CDF 203, 204, and 315. Credit: 3 semester hours.

CDF 407: Advanced Practicum in Early Childhood Programs I. Supervised practicum in the Early Childhood Learning

CIT 222: Advanced Programming. File handling, report generation, screen processing and interface design as implemented in a business-oriented language such as Visual Basic or C#. The advanced programming languages, XML and ASP.net, will be introduced. The course will cover the way applications are developed. Prerequisite: CIT 121. Credit: 3 semester hours.

CIT 226/INT 226: Microprocessor Architecture. A study of the architecture and interconnecting functional units of the CPU, ALU, and control units with memory, input/output devices and communications between subsystems. (Lecture two hours, laboratory two hours). Prerequisite: CIT 129. Credit: 3 semester hours.

CIT 230: Data Communications Technology. A study of data communications hardware including synchronous and asynchronous communications. Prerequisite: CIT 226. Credit: 3 semester hours.

CIT 231/INT 231: Peripheral Control Structures. An analysis of the digital logic structures of peripheral control devices and how they interface with microprocessor based systems. Use of the Intel Series Development System to develop, edit, assemble, debug and test system routines. Prerequisite: CIT226. Credit: 3 semester hours.

CIT 232: Introduction to Network Operating Systems. This course involves the installation, configuration, management, and troubleshooting of network operating systems, accounts, d10lone54.6 (n)3..1 (10lon)9.1 m4Cs-1.9 (g)c 0 (r)9.e(,)-

K

CJE 321: Private Security. The study of the historical and philosophical development of private security. Emphasis is placed on responsibilities and legal problems of private agencies. Credit: 3 semester hours.

CJE 322: Criminal Investigation. An introduction to the techniques and methods used by police investigators. Attention is given to crime scene protection, collection, preservation, and identification of physical evidence. Prerequisite: CJE 101 or consent of instructor. Credit: 3 semester hours.

CJE 325: Courts. A course designed to study the American judicial system including the function of courts, judicial process and procedures, rules of evidence, constitutional issues, and the roles and responsibilities of key court personnel. Prerequisites: CJE 101 and CJE 215 with grades of C or better. Credit: 3 semester

CJE 433: Research Methods in Criminal Justice. An in- depth research effort. To include an introduction to basic logic, knowledge and skills of research design and methodology. Prerequisite: Consent of instructor. Credit: 3 semester hours.

CJE 434: Statistics for Criminal Justice. This course serves as an introduction to the use of statistics as a method of describing and analyzing data and

COS 200: Computer Information Systems. Overview of computer-based information systems, major models, applications and functions from a component perspective. Learn to describe physical and logical aspects of systems. Learn to present related material with intermediate HTML. Credit: 3 semester hours.

COS 232: Programming I. Required for Business and Security options. This course is a study of COBOL syntax, constructs, and its applications in business programming. Topics include structured program design, control break processing, table usage, sorting, merging, report writing, and maintenance. 7 7 (e)2 (1(c)5.9 (e)a (c)5.d8 (ou)3.1 (smg)8 (a (ct)-1,)1 (

COS 331/CIT 331/PHY 331: Introduction to Robotics. Introduction to robotics including the design, building, and programming simple robots. Included will be the basic science, engineering, and ma A1 (,8-0.6 (4.25(e)0.9 (n)bo)-4 (tg)-5 (,)(g)-5 (i

K

ECO 301: Microeconomics. Intensive study of economic analysis of consumption, output, price, and factor proportion problems and forms of decision making in different market structures. Prerequisite: ACC 201, BUA 204 and ECO 201,

EDU 404: Designed Curriculum Learning Environments for Young Children with Disabilities. Designing curriculum and implementing learning environment which enhance the growth and development of young children with disabilities. Prerequisite: Junior standing. Credit: 3 semester hours.

EDU 405: Teaching Social Studies in the Elementary School. This course is an interdisciplinary approach to teaching and learning social studies. Emphasis will be placed on concept development, planning, preparing students to live in a global and culturally diverseworld, developing critical competencies, and evaluating and assessing student learning. Field work required. (Replaces EDU 314). Prerequisite: Admission to Teacher Education Program. Credit: 3 semester hours.

EDU 407: Literacy Assessment and Intervention Strategies. A study of the methods and tools for assessment of reading in elementary grades. Also includes proven intervention strategies for improvement of reading related to assessment results. This course is tied closely to the assessment procedures of the Teacher Work Sample. Prerequisites: Admission to Teacher Education Program. Credit: 3 semester hours.

EDU 408: Teaching Physical Education in Elementary School. Designed to provide the prospective teacher with an opportunity to implement effective instructional programs. The focus of the course will include lead-up games and a variety of low organized activities, as well as the [illegible] 0.186 60.00(e)5 (s11 (l)30.6 (C)-1 (u)-1.9 (is)-4.2 (it (c91 4.03 0 T.4 2e)5 (

ENG 260: Children's Literature. A study of literature that is especially suitable for use in the elementary grades with emphasis upon techniques of presenting this literature to young children. Prerequisite: ENG 211 or consent of instructor. Credit: 3 semester hours.

ENG 285: Writing and Sentence Skills for Teaching Professionals. Specifically for Education majors. Focuses on the

GERONTOLOGY

HED 223: Principles of Health Education. A study of the foundations and principles of health, including physical, mental, social, emotional, and environmental aspects of health. Prerequisite: HED 221. Credit: 3 semester hours.

HED 305: Safety Education. Focus on the rules and functions of health education in developing and maintaining a safe and healthful A ias 0 Tw 4 s

Dc3 pDc3 -48Tw 4

the Abrahamic, Dharmic, and Syncretist religions. Prerequisites: ENG 101 and IGS 200 or consent of director. Credit: 3 semester hours.

IGS 202: Special Topics. An interdisciplinary seminar for the analysis and discussion of special topics within disciplines of Arts, Culture and Humanities. Equivalent to IGS 201. Credit: 3 semester hours.

IGS 300: The Modern & Post-Modern World. An exploration and comparison of ideas and values reflected in the modern and post-modern world form selected cultures. Prerequisites: ENG 101 and IGS

INT 212: CAD 3D. Prerequisite: INT 208 or consent of instructor. Designed to provide CAD users understanding of 3D concepts, technique, strategy, and rendering features, engineering analysis and parametrics. Appropriate to those desiring to learn process of accurately producing three dimensional images for broad- based applications. Credit: 3 semester hours.

INT 215: Modeling & Animation I. 3/D modeling and animation designed to bring new power, versatility, speed, and value to the graphics professional who needs to create professional images and animations. Credit: 3 semester hours.

INT 225: Regulators, Oscillators, and Linear Devices. Study, through theory and application, of regulators, oscillators, thyristors, DA's, Op Amps, and linear devices. Credit: 3 semester hours.

INT 226/CIT 226: Microprocessor Architecture. A study of the architecture and interconnecting functional units of the CPU, ALU, and control units with memory, input/output devices and communications between subsystems. (Lecture two hours, laboratory two hours) Credit: 3 semester hours.

INT 246: Biomedical Techn. Equip II. Prerequisite: INT 245. This course introduces the student to electrical and

JOU 201: Media Literacy. The course focuses on analyzing and discerning content found in traditional and digital media. Creditd es (y.1 ype(O)-5 (G)]TJ0 T0 126Tw 4.784 0 TdC 0 g0.002 Tc 00 0.6Tw 2.544 T)2.1 courcyG

program, "KSU Kick down). Students work as reporters, editors, photographers, videographers, and graphic designer for campus media productions. Prerequisite: JOU 371 or consent of instructor. Credit: 3 semester hours.

JOU 369: Community Journalism (Broadcast Version). Study of local broadcast news media, their unique service functions, and the particular economic and community issues facing their audiences. Prerequisites: JOU 367 or Instructor's Consent. Credit: 3 semester hours.

JOU 370: Public Relations Campaigns. Study of PR case studies leading to practical experience in a real PR campaign for a rural, corporate or non-profit environment. Prerequisite: JOU 366 or instructor's consent. Credit: 3 semester hours.

JOU 371: Public Events Planning. Study of cases leading to the development of a special event for an organization associated with rural, corporate or non- profit environment. Prerequisite: JOU 366 or instructor's consent. Credit: 3 semester hours.

JOU 372: Television & Radio Production II. Advanced ( )-0.6sse for elcvisi2r an radidzdesJdin.4 (z9 0.222 0 ..6 4:)2.6 ( )-0. (R)1h-1 (r
J. BDC 0.002

students for communicating and interpreting results. Prerequisite: MAT 111 or higher. Credit: 3 semester hours. JOU 434: Practicum in Print Journalism. Work as a reporter editor in a supervised role at a newspaper or magazine; 230 total work hours for 3 semester hour credits. Prerequisites: JOU 362 or consent of instructor, and junior standing (60 earned credit hours). Credit: 3 semester hours.

JOU 435: Practicum in Broadcast Journalism. Work as a reporter or editor in a supervised role at a broadcast medium; 230 hours work for 3 academic credit hours. Prerequisites: Junior standing (60 credit hours) and either JOU 367 or Instructor's Consent. Credit: 3 semester hours.

JOU 436: Practicum in Public Relations. Work as a PR practitioner in a supervised role in a public relations environment; 230 total work hours for 3 semester credit hours. Prerequisites: JOU 365 or instructor's consent, and junior standing (60 earned credit hours). Credit: 3 semester hours.

JAPANESE

JPN 171: Conversational Japanese I. An introductory course with emphasis on the everyday spoken language, and some writing. Credit: 3 semester hours.

JPN 172: Conversational Japanese II. Continuation of JPN 171 with emphasis on pronunciation, grammar, vocabulary, listening, oral expression, and some writing. Prerequisite: JPN 171 or consent of instructor. Credit: 3 semester hours.

KOREAN

KOR 171: Introduction to Korean Culture and Language. An introductory study of Korean culture with an emphasis on the basics of HanGul (the Korean language alphabet). Prerequisite: KOR 171 or consent of instructor. Credit: 3 semester hours.

KOR 172: Korean Languages II. Continuation of KOR 171 to reinforce the basic foundation of the Korean language with emphasis on developing writing, reading and conversational skills. Prerequisite: KOR 171 or consent of instructor. Credit: 3 semester hours.

KSU

KSU 101: Bred Training. This course is designed to assist students in making a smooth academic and social transition to University life. Through guided experiences, students will begin the self-

this course as a graduation requirement. This course is credit bearing. To enroll, student must have completed less than 30 credit hours. Credit: 1 semester hour.

KSU 201: Bred for Lead. This course is designed to provide students with opportunities to become engaged with student organizations. Through the use of various assessments, students will begin to discover their leadership styles. Topics covered include cultural competency, increasing student self-sufficiency, and aligning skills, talents & interests with selecting a career. Upon completing this course, students will serve as mentors for first-year students. A service-learning component is also required. To enroll, must have completed 30 credit hours or be classified as a sophomore. Credit: 1 semester hour.

KSU 301: Bred Winner. This course is designed to strengthen skills in subject areas that are particularly relevant to gaining admission to and succeeding in graduate degree or professional programs. This course will also benefit students that plan to enter their career field immediately following college. Students will develop resumes, create personal statements, and receive tips for graduate admissions exams. A civic engagement component is also required. To enroll, must have completed at least 60 credit hours or be classified as a junior. Credit: 1 semester hour.

KSU 401: Bred for Life. This course prepares students for life post-graduation. Students will discover what it means to be an engaged alumni member, construct a plan that will assist in the career search, and develop a plan for future financial freedom such as completing exit counseling, load repayment and transitioning to independent living. A civic engagement component is also required. To enroll, must have completed at least 90 credit hours or be classified as a senior. Credit: 1 semester hour.

LIBERAL STUDIES – HONORS

LST 241: Intermediate Classical Greek I. Reading and translation of authors such as Plato, Xenophon, and Demosthenes. Open to non-honors students. Prerequisites: HON 132 or consent of instructor. Credit: 3 semester hours.

LST 242: Intermediate Classical Greek II. Reading and translation of a play by

MATHEMATICS

MAT 101: Algebraic Concepts. This course develops algebraic skills through the use of data collection, hands-on manipulatives, and application of algebraic concepts with embedded study skills. Topics include the properties of equality; linear equalities and inequalities, with applications; graphing (linear, quadratic, and exponential growth models); solving systems of linear equations; solving quadratic equations; and

MAT 132: Calculus and Analytic Geometry II. Review of the fundamental a266 (a)-4 67mo2 (R(und)43.t)1.7 (( )-0.6 (m)-1.3 c)2.9 (u

MAT 231: Multivariate Calculus. Calculus of vector- valued functions, partial differentiation, multiple integrals, curl, surface integrals and Stokes' theorem. Plane curves, polar coordinates, vectors, and three- dimensional analytic geometry. Prerequisite: MAT 132. Credit: 3 semester hours.

MAT 232: Differential Equations. The study of first- order equations, linear equations, the Laplace transform, Picard's existence theorems, and systems of equations.
Prerequisite: MAT 132. Credit: 3 semester hours.

MAT 300: Introduction to Advanced Mathematics. This course provides an orientation to higher mathematics. Topics include logic, mathematical proof, set theory, relations and functions, and an introduction to mathematical axiom systems. Prerequisite: MAT 132 or consent of instructor. Credit: 3 semester hours.

MAT 304: Perspective on Mathematics. Survey of the history and opportunities of mathematics, together with cultural ramifications, methods, and connections among various branches. Prerequisite: MAT 131. Credit: 3 semester hours.

MAT 307: Linear Algebra. Coordinates, vectors, vector spaces, subspaces, Euclidean n-space, determinants, linear trans-formations, linear transformations and matrices, bilinear and quadratic forms are studied. Prerequisite: MAT 132 or consent of instructor. Credit: 3 semester hours.

MAT 312: Mathematical Programming. This course is an introduction to modern operations research. Modeling, theory, applications of linear and integer programming, and problems concerning scheduling, inventory and networks are studied. Prerequisites: MAT 125 or MAT 307. Credit: 3 semester hours.

MAT 315: Numerical Analysis. Techniques of numerical approximation in analysis and algebra. Prerequisite: MAT 231. Credit: 3 semester hours.

MAT 321: Probability and Statistics I. Measures of central tendency and dispersion, basic probability theory, Bayes Theorem, discrete and continuous univariate probability distributions, moments, random variables, sampling theory, estimation, hypothesis testing. Prerequisite: MAT 132. Credit: 3 semester hours.

MAT 322: Probability and Statistics II. Multivariate distributions, joint and conditional distributions, moments, variance and covariance, functions of several random variables, correlation and regression, chi-square tests, analysis of variance. Prerequisite: MAT 321. Credit: 3 semester hours.

MAT 326: Modern Geometry. This course includes study of axiom systems; Euclidean and Non-Euclidean Geometries; affine, spherical, projective and vector geometries. Prerequisite: MAT 300. Credit: 3 semester hours.

MAT 333: Complex Variables. This course is focused on the techniques and applications of the complex number system. Topics include Euler's formula, analytic functions, and the method of residues. Prerequisite: MAT 231 or consent of instructor. Credit: 3 semester hours.

MAT 399/PHY 399/BIO 3

MAT 402: Modern Algebra II. Continuation of MAT 401. Rings, integral domains, quotient rings and ideals, extension fields, and vector spaces are studied. Prerequisite: MAT 401. Credit: 3 semester hours.

P A T

K

MGT 480: Management Internship. Off-campus, on- the-job employment related to the discipline of management. Prerequisite: MGT 301 and junior or senior status and consent of chairperson. Credit: 3 semester hours.

MGT 490: Business Capstone. Capstone seminar. Course format provides students with experience in student integration of their specialization – specific and general business content knowledge to think creatively to generate new ideas and model novel problems. Prerequisite: Final semester senior standing and consent of instructor. Credit: 3 semester hours.

MGT 497: Contemporary Topics in Management. An exploration of contemporary topics in business management. May be repeated for credit for different topics (maximum of nine credit hours). Examples of topics include lean, green, and sigma, global competitiveness, sustainable business practice, team management, leadership or other current issues. Prerequisites: MGT 301. Credit: 3 semester hours.

MGT 499: Independent Study in Management. Research and in-depth study of a particular management concept or problem under the direction of a faculty member. Prerequisite: Senior classification and consent of the chairperson.
Crc 0 Tw 3.6[(p)-2.953 : c e c 0 Td[(con)9.1t.ay.i buang the c-407 TD[(sJ0.004 Tw)-6.5 0.832 0 Td( )Tj-0.0.001 - (v)j-0.0 -22.4 (.001 -

MIS 410: Internet Application Development. This course covers concepts, principles, and techniques of Internet business applications development. The course provides students both theory and practical application of e-business

MARKETING

MSL 320: American Military History. This course will furnish upper level KSU ROTC Cadets, and qualified History majors or minors with the methodological tools and materials needed to gain a more detailed understanding of American Military History and to put together a major research paper. MSL/HIS 320 will emphasize basic research

MUA 262: Major Applied IV/Lab. A continuation of MUA 261. Laboratory required. Must pass the Sophomore Applied Music Proficiency Examination to successfully complete this course. Prerequisite: MUA 261. For B.A. Mus. and B.M. music education majors. VARIABLE Credit: 1 to 2 semester credit hours.

MUA 281: Perform. Major Applied III/Lb. Prerequisite: MUA 182. For B.M. music performance majors. A continuation of MUA 182. Laboratory required. Credit: 2 semester hours.

MUA 282: Perform. Major Applied IV/Lab. Prerequisite: MUA 281. For B.M. music performance majors. A continuation of MUA 281. Laboratory required. Must pass the Sophomore Applied Music Proficiency Examination to successfully complete this course. Credit: 2 semester hours.

MUA 305: Music Composition V/Lab. A continuation of MUA 206. Laboratory required. Prerequisite: MUA 206. Credit: 1 semester hour.

MUA 306: Music Composition VI/Lab. A continuation of MUA 305. Laboratory required. Prerequisite: MUA 305. Credit: 1 semester hour.

MUA 321: Minor Applied 2 05.

MUA 462: Major Applied VIII/Lab. Prerequisite: MUA 461. For B.M. music performance majors. A continuation of MUA 461 with advanced for literature and performance. Laboratory required. Senior recital performance required to successfully complete this course. Open only to bachelor of music performance majors. Credit: 4 semester hours.

MUA 481: Perform. Major Applied VII/Lb. Prerequisite: MUA 382. For B.M. music performance majors. A continuation of MUA 382 with advanced standards for literature and performance. Laboratory required. Credit: 3 semester hours.

MUA 482: Perform. Major Applied VIII/L. Prerequisite: MUA 481. For B.M. music performance majors. A continuation of MUA 481 with advanced standards for literature and performance. Laboratory required. Credit: 4 semester hours.

MUSIC—CLASS INSTRUCTION

MUC 101: Woodwind Class for Non-Majors. Course required for freshman non-major woodwind instrumentalists (piccolo, flute, clarinet, oboe, bassoon, saxophone) participating in a large university instrumental ensemble. Group instruction with emphasis in instrumental performance techniques. May be repeated once for credit. Co-requisite: MUP 381, MUP 382, MUP 383 or MUP 384. Credit: 1 semester h

MUC 250: Jazz Piano. A

MUE 333: Fundamentals of Music for Early Elementary Teachers. Open to non-Music majors. A course designed to meet the needs of early elementary teachers (K-4), emphasizing singing, listening, creative activities, use of Orff instruments, and basic keyboard skills. Laboratory experience required. Prerequisite: MUE 213 or permission of instructor. 3 credits.

/Artifact <</Type/Pagination/Subtype/Footer/BBox[0.00 0.00 612.00 792.00]/Contents[1 0 R 2 0 R 3 0 R 4 0 R 5 0 R 6 0 R 7 0 R 8 0 R 9 0 R 10 0 R 11 0 R 12 0 R 13 0 R

MUI 298: Special Topics in Music Production. An exploration of contemporary topics in music production. May be repeated once for credit for different topic. Prerequisite: Consent of instructor. Credit: 3 semester hours.

MUI 301: Music Technology Applications. Prerequisite: MUI 202. Practical applications of computer-based music notation and sequencing, music synthesis, digital editing, and sound design. Credit: 3 semester hours.

MUI 302: Music Publishing, Copyright, and Licensing. A study of the music publishing and recording industry with emphasis on copyright and related issues

MUP 381: Marching Band. A performing ensemble engaged in the preparation for and performance at University functions, including athletic events. May be repeated for credit. Open to all students through audition. Credit: 1 semester hour.

MUP 382: Symphonic Band. A performing ensemble designed primarily for the general student desiring continuation of instrumental music experience. Maybe repeated for credit. Open to all students through audition. Credit: 1 semester hour.

MUP 383: Small Vocal Ensemble. A mixed ensemble organized for the performance of chamber and special literature, including madrigals and motets. May be repeated for credit. Open to auditioned vocal students. Credit: 1 semester hour.

MUP 384: Pep Band. A small performing ensemble engaged in the preparation for and performance at University functions, including athletic events. May be repeated for credit. Open to all students through audition. Credit: 1 semester hour.

MUP 385: Wind Ensemble. A select instrumental ensemble engaged in performance of literature in the wind repertoire. May be repeated for credit. Open to auditioned instrumental credied instr-1.9 (.3 (in)4.1 (s)0.6 (s)-4.8 ( )]TJ-3.4 (es)1.8 (

MUS 112: Music Theory I. Review of music fundamentals, including fundamentals of tonality. Introduction to harmonic and melodic analysis and part writing with emphasis on music of the common practice period, up to and including triads in all inversions. Laboratory required. Prerequisite: Placement byMusic Theory Placement Examination or successful completion of MUS 099. Credit: 3 semesteri- 9 (ir)9.8 (e)55cy Musrtion

representative arias and song literature. This course does not fulfill the foreign language requirement of the Liberal Studies General Core Requirements. Prerequisite: Consent of instructor. Credit: 1 semester hour.

MUS 238: Lyric Diction—French and German. A study of the principles and application of French and German diction in singing through the use of the International Phonetic Alphabet (IPA), spoken language drill, and recitation of representative arias and song literature. This course does not fulfill the foreign language requirement of the Liberal Studies General Core Requirements. Prerequisite: Consent of instructor. Credit: 1 semester hour.

MUS 251: Intro to Electronic Mhsic.Prerequisit: Consentof instructor. Itroduction t musical acoustics,

MUS 333:

NUR 100A: Basic Pharmacotherapeutics. Introduces the major concepts of pharmacotherapeutics, establishes a

BIO 109, NUR 100A, NUR 104A, NUR 105A, & NUR 105AP. Requires concurrent registration in BIO 204 & NUR 114A. If the student drops or withdraws from BIO 204 or NUR 115AP, the student must also withdraw or drop from NUR 115AP. Credit: 3 semester hours.

NUR 115AP: Behavioral Health Practicum. Student- designed experience focused on the role of the registered nurse as a provider and manager of care for individual, families, and groups with behavioral or mental health challenges in selected practice settings under the direct supervision of a clinical professional. Prerequisites: Admission to the major, BIO 109, NUR 100A, NUR 104A, NUR 105A, & NUR 105AP. Requires concurrent registration in BIO 204 &r NUR 114A. If the student drops or withdraws from BIO 204 or NUR 115AP, the student must also withdraw or drop from NUR 115AP. Credit: 2 semester hours.

NUR 118: Independent Study. This course will assist students with study skills, self-guided study of current nursing concepts and placement in the program; discuss simulation opportunities and collaborate with nursing lab coordinator for possible laboratory time for self-guided review of skills. Credit: 3 semester hours.

NUR 200B: Introduction to Genetics and Molecular Therapies. This course provides an introduction to organization of the human genome and basic principles of inheritance in humans; cells and development, chromosome structure and

NUR 205AP: Pediatric Health Practicum. Student- designed experience focusing on the role of the registered nurse as the provider and manager of care for pediatric clients and their families in a variety of practice settings under the direct supervision of a clinical professional. Prerequisites: Good standing in the major, BIO 109, NUR 100A, NUR 104A, NUR
105A, & NUR 105AP. Requires concurrent registration in PSY 303 & NUR 205A. If the student drops or withdraws from NUR 205A, the student must also withdraw or drop from NUR 205AP. Credit: 2 semester hours.

NUR 211: Nursing III. Preparation for giving family- centered nursing care and applying nursing principles/techniques in maternal care during maternity cycle/child care from conception through adolescence. (Six hours of lecture, nine hours of clinical laboratory per week.) Prerequisites: NUR 112. Credit:9 semester hours.

NUR 212: Nursing IV. Focus on developing a coordinated approach to planning and imp

NUR 325: Teaching and Learning. This course introduces teaching and learning concepts for the practicing registered nurse access a diverse lifespan in a healthcare setting. Prerequisite: Admission to the major. Credit: 1 semester hour.

NUR 325B: Introduction to Healthcare Informatics Provides a conceptual foundation for understanding healthcare informatics and includes analysis of various applications of information systems within the context of the health care system. Emphasis is placed on the nurses' role in advanced quality of care. Prerequisites: ENG 101, ENG 102, PSY 200, & ALH 205. Required for all pre-licensure nursing majors. Credit: 3 semester hours.

NUR 325R: Public Health Nursing**.** This course is designed to integrate knowledge from nursing theory and public health science in assessing the healtht oiche Es79.8 (eq)-01 (s)-4.9 3 1 [(e 2 6 3 2 1 (f 4 3 6 8 0 7 5 1 6 8 2 8 1 7 9 4 8 0 1 9 5 9 4 6 5 7 8 9 4 8 1 4 3

resolution, and management of nursing care will be discussed. Three hours clinical practicum and two hours lecture per week. Taught second eight weeks of semester. Credit: 3 semester hours.

NUR 421: Nursing Informatics. This course provides a fundamental understanding of nursing informatics to inform quality and safety patient outcome measures. Prerequisites: All 300-level NUR classes. Credit: 2 semester hours.

NUR 460B: Community and Public Health Nursing. Role of nursing in the relationship between community conditions and public health; emphasis on principles of public health combin.9 q94-4.4 (y)5.4 (c)0.192 0 Td[(p)-2.9 (r)-1.2 (bi)0.5 (n)-0.9 (.9 q

PHE 127: Individual Sports. Fundamental skills, techniques, terminology, strategy of tennis, archery and badminton will be addressed durin (r)2.1aoNIVEsd(a)c.6 ( )-aed E.9 (d)-0e4EssroNIV.0 Tw 16.992 0 Td(n 19jETq54 350 -13Tw 10.0301 TD.1

PHE 302: Human Physiology for Physical Education and Sport. Prerequisites: BIO 111 and physical education major. A course in human physiology for phneeolo962 (n)3.1 (r).5 (ca)5 (l)3.5.5 (e)5 (du)9.1 (c)5.9 (a)-SIeolo9-0.002 Tc (p)1.(du)9.1 (ca5

as Philosophy of Technology, Philosophical Anthropology, and Modern Philosophy: Descartes to Kant. Consistent with other philosophy 300 level offerings, there are no prerequisites. Credit: 3 semester hours.

PHI 390: Philosophy and Science. An exploration of ethical issues arising from modern biology and medicine, including altruism and sociobiology, abortion, birth control technology, euthanasia, and genetic engineering. Credit: 3 semester hours.

PHI 400: Metaphysics. A critical investigation of arguments concerning categorical concepts including time, space, modalities of existence, and causality. Prerequisite: PHI 200 or 210 or consent of instructor. Credit: 3 semester hours.

PHI 410: Philosophy and Literature. An exploration of the intersection of speculative philosophy and imaginative literature, seeking to discover both resonance and contrast between philosophy and literature. Credit: 3 semester hours.

PHI 490: Survey of Basic Mathematical Logic. A survey of sentential and quantificational language systems and their … ƒ Ž … — Ž ‹ ä • … Ž — † ‡ • ’ ” ‘ ‘ ^ • ‘ ^ ^ — • … – ‹ ‘ • ƒ Ž …s proof, and elements of modal logic. ‘ ” ‡ • • á ‘Å † ‡ Ž
Prerequisite: PHI 210 or one course above MAT 111. Credit: 3 semester hours.

PHI 495: Philosophy and Modern Culture. Explores the philosophies, belief systems, and value systems implicit in the expressive forms of modern and popular culture, particularly youth culture, broadly defined. Themes include: tradition and innovation, and whether or not popular culture presents a coherent system of belief. Credit: 3 semester hours.

PHYSICAL SCIENCES

PHS 201: Physical Sciences I. An inquiry-based course based on federal and state education standards covering the basic principles of motion, optics, sound and vibration, motion in the heavens, and important environmental topics. Prerequisite: Either completion of or testing out of remedial courses. Credit: 3 semester hours.

PHS 202: Physical Science II. An inquiry-based course based on federal and state education standards covering the basic principles of electricity, electrical circuits, magnetism, heat and energy, Earth internal processes, the surface of the Earth, and important environmental topics. Prerequisite: Either completion of or testing out of remedial courses. Credit: 3 semester hours.

PHS 211: Earth and Environmental Science. An inquiry based course covering topics in Earth and Environmental Sciences. Topics include internal and surface processes, the oceans, the atmosphere, and human interaction with the environment. Prerequisite: Either completion of or testing out of remedial courses. Credit: 3 semester hours.

PHS 221: Introduction to Weather Studies. This 211 (n)-0.9 (qTJ0 3 (en)-1.9 .689 -1.Td( )Tj-d.003 T11(r)11au)-2 Tc- Tw 0.186:

PHY 340: Engineering Electromagnetics. Electric and magnetic forces; fields and potentials accompanying charge and current in vacuum/dielectrics/conductors. Motion of cha/c.5 (o)3N0[(c.5 (o)3N0[(c.5 (o)3N0[(c.MCID 0 ÞBDC56D 0 g/TT1 1 To)3N0

POS 431: The Constitution and Civil Liberties. An examination of constitutional development and the definition of American rights in the areas of freedom of speech, press, assembly, association, and religion. Prerequisites: POS 160 and POS 211. Credit: 3 semester hours.

POS 446: American Political Executives. An analytical examination of the powers, duties, and functions of American political executives in national, state, and local governments. Prerequisites: POS 201, POS 211, and POS 331 or consent of instructor. Credit: 3 semester hours.

POS 461: American Politics. An advanced political science course that addresses the American political heritage. Specific emphasis is placed on the Constitution, political [(S)-3 (p)-2.9 (er)93.6 (61.4 (d97(c)0.v6 (p).003 Tw 04)0.9 (a)-6.1 (l)-1.4 (

PSY 408: Learning and Motivation. The examination of behavior through principles of classical, operant, and cognitive learning theories and research, and through theories and research regarding motivation. Prerequisite: PSY 200. Credit: 3 semester hours.

PUA 322: Management Information Systems. This course examines technical, psychological and behavioral aspects of information systems, life cycles, and information controls. Credit: 3 semester hours.

PUA 371/HED 371/SOW 371: Introduction to Public Health. Prerequisite: HED 221 or consent of instructor. A survey course that develops an understanding and appreciation for factors affecting health status and its contribution to individual and community health. Credit: 3 semester hours.

REC 343: Organization and Administration of Playgrounds and Recreation. Focus on city problems as related to play and recreation, planning, authority and responsibility, programs, leagues, tournaments, equipment, supplies, and public relations. Credit: 3 semester hours.

REC 364: Camping and Camp Counseling. Includes theories and philosophies of camping and camp counseling. Emphasis on organizing and administering practical experiences in camping. Prerequisite: REEam42at Prereqy 2.1v4.80.9 (i)x (f)2.5 (

SOC 305: Contemporary Social Problems. An examination of social issues and conflicts of society from a sociological perspective. Prerequisite: SOC 203. Credit: 3 semester hours.

SOC 312: Sociology of Poverty. Prerequisite: SOC 305. Investigation of the socio/cultural factors that contribute to poverty and deprivation in rural and urban settings. Credit: 3 semester hours.

SOC 314: Demography. Examination of the factors that affect growth, size, composition, and distribution of human populations; the components of population change and their relationship to socio-cultural variables. Prerequisites: SOC 203 and SOC 300. Credit: 3 semester hours.

SOC 320: Social Stratification. Study of systems of social ranking in societies. Attention is focused on social classes in American societies and the distribution of power, prestige, and privileges. Prerequisite: SOC 203 or consent of instructor. Credit: 3 semester hours.

SOC 330: Sociology of Education. Focuses on education's role in creating and redressing inequal 15 :42 (o)61ureesua7e.2 (3)52

SOW 315: Advanced Skills in Social Work Methods. Development of techniques and skills in problem- solving with families, groups, communities, and organizations. Selected frameworks for Social Work intervention are explored. Prerequisites: SOW 308 and SOW 314. Credit: 3 semester hours.

SOW 321: Social Welfare Policies, Issues, and Programs. Historical and philosophical development of social welfare as

SOW 435/CJE 435: Statistics for Social Work. This course serves as an introduction to the use of statistics as a method of describing and analyzing data from research in Criminal Justice with an emphasis on applied methods. Prerequisites: SOW/CJE 433 and MAT 111 or higher. Credit: 3 semester hours.

SOW 497: Social Work-

of1/Pag63928]/Shi i is.9 (e)6 ((te)5c9 (s)00.003 Tcurs.9 (e)61.7 (h)-0.6 p)4.0059 (7(s)00. T

SPA 320: History, Culture and Civilization of Spain and Latin America. This core course studies the history, art culture, and everyday life of Spain and Latin American beginning with Prehistoric Spain and Latin America into the 21st century. Conducted in Spanish. Prerequisite: SPA 304. Credit: 3 semester hours.

SPA 355: History and Phonetics of the Spanish Language. This course is an introduction to the science of Spanish linguistics, including phonology, morphology, syntax and semantics of the Spanish language as well as the history of the language. Conducted in Spanish. Prerequisite: SPA 304. Credit: 3 semester hours.

SPA 383: Study Abroad Spanish Communication.

SPE 103: Interpersonal Communication. The verbal and non-verbal aspects of human communication. Emphasis is placed on roles played by self-esteem, perception, trust, conflict, language, values, etc. Credit: 3 semester hours.

SPE 200: Public Speaking* Deals with the preparation, delivery, and evaluation of speeches. Emphasis is placed upon the impromptu, the extemporaneous, and the written speech. Prerequisite: SPE 103. Credit: 3 semester hours.

SPE 201: Group Discussion and Debate. The theory and practice of small and large group discussion, and formal and informal debate strategies, emphasizing the individual's role within the group and on debate. Credit: 3 semester hours.

SPE 302: Interracial/Intercultural Communication. The study of communication strategies in different cultural and racial groups. Prerequisite: SPE 103. Credit: 3 semester hours.

SPE 304: Oral Interpretation. Designed to equip the student with techniques for effective oral interpretation of such literature as the Bible, the Classics, dramatic literature, and poetry. Prerequisite: SPE 103. Credit: 3 semester hours.

SPE 310: Persuasive Speaking. The study of the rhetorical aspects of speech in persuasive styles. Emphasis is placed on gathering, structuring, and orally presenting persuasive data. Prerequisite: SPE 103. Credit: 3 semester hours.

THE 220: Modern Drama. A