Breakdown of Degree Requirements as outlined by Institutions of Higher Learning

Breakdown of Degree Requirements	Credit Hours
Technical Courses (industry-recognized credentials	45
General Education Core (meets SACCCOC standards)	15
Applied Associates Degree	60 hours total
General Education Core (MSU)	15
University-specified courses	15
Upper Division Courses	30
Applied Baccalaureate Degree	120 hours total*

^{*30} hours must be taken at the institution awarding the degree

Proposed Emphasis Areas for the BAS Degree by College

CALS

Ag Education, Leadership, and Communication (two emphasis area options available)

Agricultural Engineering, Technology and Business (one emphasis area only)

Agricultural Machinery (two emphasis areas only, 15+ hours)

Animal and Dairy Sciences/Equine Science (two emphasis area options available)

Biochemistry (three emphasis area curricula provided)

Entomology (three emphasis area curricula provided)

Forensics (two emphasis area curricula provided)

Fashion Design and Merchandising - Retail (18 hours, will require a student take 12 credit hours in the second emphasis area)

Plant Pathology (two emphasis area options available)

CAAD

Building Construction Science (Department planning as potential option in the future)

CA&S

Communication/Broadcast Communication/Theatre Criminology/Sociology Geoscience

History

Psychology

COB

General Business (Maximum 15 hours)

BCOE

Cybersecurity

Operations Management Engineering (Maximum of 15 hours)

COE

Educational Psychology (Starkville and Online Curricula)

Educational Psychology (Meridian only Curricula)

Kinesiology (Starkville and Online Curricula)

Kinesiology (Meridian only Curricula)

Special Education (Meridian only Curricula)

Manufacturing Fundamentals (Starkville and Online Curricula)

General Technology (General subject overview not to compete with the Industrial Technology

Major, Starkville and Online Curricula)

(Starkville and Online Curricula)

CFR

Environmental Conservation

Forestry

Sustainable Bioproducts Wildlife, Fisheries and Aquaculture

CVM

Veterinary Medical Technology (Department planning as potential option in the future)

Meridian Campus

Healthcare Services Event and Hospitality

Cybersecurity

Requirements for 30 hours emphasis area only (All of the Engineering courses available online)

Pre-requisites required:

MA 1713 Calculus I CSE 1284 Intro to Programming (ISE 1724/IST 1714/IST 2374/CSC 1613/CSC 2134) CSE 1384 Intermediate programming (IST 1764/IST 2724/CSC 2623/CSC 2144) CSE 2213 Methods & Tools for Software Development (IST 2954/IST 2314)

	Required upper division level courses 12 hours FDM 3553 Merchandise Retail Pricing and Inventory Management FDM 4693 Digital Merchandising FDM 4513 Consumer Behavior in Merchandising FDM 4583 Entrepreneurship in Merchandising The Fashion Design and Merchandising (FDM) program in the School of Human Sciences (SHS), College of Agriculture and Life Sciences (CALS) will offer the Retail Certificate as an emphasis area for the Bachelor of Applied Science (BAS). Requirements: Students will need to complete six undergraduate courses -18 credit hours (Required Electives: FDM 2333, FDM 2553, and Required Upper Division Level Courses FDM 3553, FDM 4693, FDM 4513 and FDM 4583). The courses will be offered online (Online/Distance) and face-to-face (Starkville throughout the academic year. Student will need to pick up a second emphasis area (10-15 upper level credit hours) General Business is a recommended emphasis area. Total credit hours 120 including electives.	
Biochemistry	If students complete ONE Emphasis Area (30 hours): BCH 4603 General Biochemistry I (pre-req: CH 4523 Organic Chemistry II) BCH 4613 General Biochemistry II (pre-req: CH 4523 Organic Chemistry II) BCH 4713 Molecular Biology BCH 4503 Scientific Communication Skills BCH 4623 Biochemistry of Specialized Tissues BCH 4414 Protein Methods BCH 4804 Molecular Methods BCH 3901 Senior Seminar 6 hours of BCH electives. If students pursue TWO Emphasis Areas (15 hours): BCH 4603 General Biochemistry I (pre-req: CH 4523 Organic Chemistry II) BCH 4613 General Biochemistry II (pre-req: CH 4523 Organic Chemistry II) BCH 4713 Molecular Biology	Open to any student with AAS degree

	BCH 2013 Introduction to Forensic Science (pre-req: BIO 1134 & 1144 Biology I & II) BCH 4333 Advanced Forensic Science PSY 1013 General Psychology SO 1003 Introduction to Sociology Plus TWO of the following: ST 2113 Introduction to Statistics PSY 3104 Introduction to Psychological Statistics PSY 4373 Forensic Psychology CRM 3103 Contemporary Issues in Criminal Justice (pre-req: CRM 1003 Crime & Justice in America) CRM 3603 Criminological Theory (pre-req: CRM 1003 Crime & Justice in America) AN 4313 Human Osteology	
Plant Pathology	BIO 3103 Genetics I If students pursue THREE Emphasis Areas (12 hours): BCH 2013 Introduction to Forensic Science (pre-req: BIO 1134 & 1144 Biology I & II) BCH 4333 Advanced Forensic Science PSY 1013 General Psychology SO 1003 Introduction to Sociology If students pursue TWO Emphasis Areas (17-18	Open to any
	hours): EPP 4113 Principles of Plant Pathology (prereq: BIO 1134 Biology I) EPP 4163 Plant Disease Management EPP 4214 Diseases of Crops Plus TWO of the following: EPP 3124 Forest Pest Management EPP 4254 Introduction to Mycology EPP 4613 Turfgrass Diseases If students pursue THREE Emphasis Areas (10 hours): EPP 4113 Principles of Plant Pathology (pre-	student with AAS degree
Agricultural Engineering, Technology and Business	req: BIO 1134 Biology I) EPP 4163 Plant Disease Management EPP 4214 Diseases of Crops If students pursue ONE emphasis area (33 hours) Agricultural Engineering, Technology and Business BCH 4603 General Biochemistry I (pre-req: CH 4523 Organic Chemistry II)	Open to any student with AAS degree

	AELC 4503- International Ag Education AELC 4613 Teaching Ag Mechanics	
	If student puruse Three emphasis areas: (10 hours) AELC 2413 - Orientation to Agricultural Education, Leadership & Communications AELC 3803 - Foundations of Leadership in Agriculture and Life Sciences AELC 4424 - Teaching Methods in Agricultural and Human Sciences	
Animal and Daine	If attribute complete ONE Emphasis Area (20 hours)	On an 40 ans
Animal and Dairy Sciences	If students complete ONE Emphasis Area (30 hours) Animal & Dairy Sciences ADS 1113 Animal Science ADS 1121 Animal Science Lab ADS 3014 Anatomy & Physiology ADS 3314 Intro to Meat Science ADS 4114 Animal Nutrition (Pre-req: CH 2503 or CH 4513) ADS 4213 Feeds & Feeding (Pre-req: ADS 4114) ADS 4613 Physiology of Reproduction (Pre- res: BIO I or BIO II and ADS/VS 3014 or equivalent) ADS 4611 Practices in Physiology of Reproduction ADS Production Elective (4 hrs See advisor for applicable courses) ADS General Elective (3 hrs - Any ADS course may be used for which student meets prereqs)	Open to any student with AAS degree
	If students pursue TWO Emphasis Areas (15 hours) Equine Science ADS 1111 Orientation to ADS ADS 2102 Equine Conformation & Evaluation ADS 1132 Intro to Horsemanship ADS 4223 Horse Management (Pre-req: ADS 1113 and ADS 1121 or ADS 1114 and ADS 4114/6114, ADS 4124/6124, and ADS 4613/6613/PHY6613) ADS 4231 Practices in Horse Care and Management (Pre-req/Co-req: ADS 4223) ADS 3233 Equine Assisted Therapy ADS 4333 Equine Exercise Physiology (Pre-req: ADS 4223)	

College of Education		
Manufacturing	Students will be required to take four required and	Open to any
Fundamentals	one of two elective courses as part of a 15-hour	student with
	emphasis area:	AAS degree
	INDT 3063 Industrial Human Relations -	
	Required	
	INDT 3813 Writing for Industry - Required	
	INDT 4233 Maintenance Management -	
	Required	
	INDT 4263 Manufacturing Technology & Proc	
	Required	
	INDT 4213 Energy Source & Power - Elective	
	INDT 4463 Manufacturing Technology & Proc	
	II Elective	

Educational Psychology

Educational Psychology Emphasis area course options for Campus 1 Starkville and Campus 5 Online:

10-15 credit hour emphasis (1/3 emphasis area)

- Required
 - o EPY 3503
 - o one 4000 level course
- Select
 - o 2-3 additional 3000 or 4000 level courses

15-20 credit hour emphasis (1/2 emphasis area)

- Required
 - o EPY 3503
 - o one 4000 level course
- Select
 - o 3-4 additional 3000 or 4000 level courses

30 credit hour emphasis (single emphasis area)

- Required
 - a. EPY 3503

b.

- 3. EPY 3513 Writing in the Behavioral Sciences
- 4. EPY 3543 Psychology of Adolescents
- 5. EPY 4033 Application of Learning Theories (prerequisite EPY 3513)
- 6. EPY 4073 Personality and Motivation
- 7. EPY 4103 ABA for Behavior Technicians**
- 8. EPY 4113 Principles of Behavior Analysis**
- 9. EPY 4214 Educational and Psychological Studies
- 10. EPY 4223 Applications of Applied Behavioral Analysis**
- 11. EPY 4313 Measurement and Evaluation
- 12. EPY 4443 Basics of Single Subject Design**
- 13. EPY 4493 Behavioral Assessment**
- 14. EPY 4513 Educational Research (prerequisites EPY 3503 and EPY 4214)
- 15. EPY 4553 Creativity/Innovations
- 16. EPY 4603 Ethics, Supervision, and Personnel Management in Behavior Analysis
- 17. EPY 4683 Advanced Issues in Educational Psychology (prerequisites EPY 3503 and EPY 3513)

*EPY 3503 is required across all emphasis options **EPY 4103, 4113, 4223, 4443, & 4493 constitute the Applied Behavior Analysis (ABA) Verified Course Sequence (VCS) leading to the Board Certified assistant Behavior Analyst (BCaBA). For those interested, all must be completed.

General Technology

Students can choose five of these courses for a 15-credit hour emphasis.

Students can choose 10 of these courses for a 30-credit hour emphasis.

TKB 3133 Administrative Management and Procedures

18/19 hour-concentration:

CO 1403 Intro to Mass Media CO 2333 TV Production *CO 3313 News Writing for Electronic Media CO 3333 Advanced TV Production

Plus two courses from Broadcast Electives list (6 hours); see below

30/31 hour-concentration:

CO 1403 Intro to Mass Media CO 2333 TV Production *CO 3313 News Writing for Electronic Media CO 3333 Advanced TV Production

Plus six courses from Broadcast Electives list (18 hours); see below

CO 1223 Intro to Communication Theory

CO 2524 Stagecraft and Lighting or CO 2544 Makeup and Costuming

18/19 hour-concentration:

CO 1503 Intro to Theatre
CO 15X3 Theatre Practicum (number rotates each semester)
CO 2503 Acting
CO 2524 Stagecraft and Lighting or
CO 2544 Makeup and Costuming

Plus

Six hours of any upper division meteorology or climate course, such as:

GR 4553 Computer Methods in Meteorology,

GR 4613 Applied Climatology,

GR 4643 Physical Climatology,

GR 4733 Synoptic Meteorology,

GR 4623 Physical Meteorology,

GR 4813 Natural Hazards,

GR 4783 Satellite Meteorology,

GR 4883 Radar Meteorology,

GR 4422 Weather Forecasting 1,

GR 4432 Weather Forecasting 2,

GR 4843 Field Methods of Severe Local Storms,

GR 4963 Mesoscale Meteorology

Professional Geology Focus

GG 1113 Survey Earth Science 1 and GG 1111 Survey Earth Science 1 Lab

Six hours of any upper division geology courses, such as:

GG 3603 Intro to Oceanography,

GG 3613 Water Resources,

GG 4133 Principles of Paleoecology,

GG 4414 Minerology,

GG 4123 Petrology,

GG 4153 Engineering Geology,

GG 4304 Principles of Sedimentary Deposits 1

Geospatial Focus

GR 4303 Principles of GIS

GR 4333 Remote Sensing

Six hours of any geospatial courses, such as:

GR 4323 Cartographic Sciences,

GR 4353 Geodatabase Design,

GR 4363 GIS Programming,

GR 4343 Advanced Remote Sensing

Geography Focus

GR 1123 World Regional Geography GR 4203 Geography of North America

Four to six hours of any regional geography course, such as:

GR 4123 Urban Geography, GR 4223

Geography of Europe, GR 4233 Geography of

Asia, GR 4243 Geography of Russia, GR 4253

GR 4303 Principles of GIS

GR 4313 Advanced GIS

GR 4323 Cartographic Sciences

GR 4333 Remote Sensing of the Physical

Environment

GR 4343 Advanced Remote Sensing

GR 4353 Geodatabase Design

GR 4363 GIS Programming

Six hours of upper level geography or geology courses

Geography Focus

GR 1123 World Regional Geography

GR 2303 Cultural Geography

GR 4303 Principles of GIS

GR 4203 Geography of North America

GR 4213 Urban Geography

Regional Geography Course, such as:

GR 4223 Geography of Europe,

GR 4233 Geography of Asia,

GR 4243 Geography of Russia,

GR 4253 Geography of Africa,

GR 4263 Geography of the South,

GR 4283 Geography of the Islamic Realm

Six hours of upper level geography or geology courses

Campus 5 (Online/Distance)

Meteorology/Climatology Focus

GR 1604 Weather and Climate

GR 4713 Synoptic Meteorology

GR 4813 Natural Hazards

GR 4643 Physical Climatology

GR 4443 Weather Prediction 1

GR 4453 Weather Prediction 2

GR 4913 Thermodynamic Meteorology

GR 4753 Satellite and Radar Meteorology

GR 4923 Severe Weather

Three hours upper level geography or geology elective, such as:

GR 4603 Climatology,

GR 4633 Statistical Climatology,

GG 3603 Oceanography,

GG 3613 Water Resources

History 10-12 hour concentration Open to any student with Either HI 1063-1073 OR HI 1213-1223 AAS degree And any two 4000 level history courses 20-21 hour concentration Either HI 1063-1073 OR HI 1213-1223 HI 4193 US Environn HI 4653 Hist of Sci Either or both HI are and History and HI can History ourse (two Any other 3 3000 and one from the group a 302 of Scie oth HI 43 are and nd HI 4273 can History other three 3000 ry courses ar 3000-4000 leve one group oove).

f. NREC 4413 Natural Resource Policy

Plus two of any FO or NREC course 3000 or higher

3. 30-33 hours

i. FO 4313 Spatial Technology in Natural Resourcesj. FO 4413 Natural Resource Policy	

Wildlife, Fisheries and Aquaculture

Three-emphasis area courses (BIO I and II or their equivalents would be prerequisites):

WFA 3133 Applied Ecology WFA 4243 Wildlife Techniques WFA 4153 Principles of Wildlife Conservation/Management

Plus one of the following to sum to 12 hours:

WFA 4183 Principles and Practices of

Aquaculture

WFA 4253 Application of GIS in WF

WFA 4273 Ecology and Mgmt. of Human

Wildlife Conflicts

WFA 4283 Human Wildlife Conflict

Techniques

WFA 4313 Fisheries Management

WFA 4353 Fish and Wildlife Policy and Law

Enforcement

WFA 4373 Conservation in Ag Landscapes

Two-

	WFA 1102 Wildlife Professions	l
	WFA 3133 Applied Ecology	
	WFA 4243 Wildlife Techniques	
	WFA 4153 Principles of Wildlife	
	Conservation/Management	
	Plus seven or eight of the following to sum to 32-	
	35 hours: WFA 4183 Principles and Practices of	
	Aquaculture	
	WFA 4253 Application of GIS in WF	
	WFA 4273 Ecology and Mgmt. of Human	
	Wildlife Conflicts	
	WFA 4283 Human Wildlife Conflict	
	Techniques	
	WFA 4313 Fisheries Management	
	WFA 4353 Fish and Wildlife Policy and Law	
	Enforcement	
	WFA 4363 W&F Administration and	
	Communication	
	WFA 4373 Conservation in Ag Landscapes	
	WFA 4383 Wetlands Ecology	
	WFA 4423 Herpetology	
	WFA 4433 Mammalogy WFA 4443 Ornithology	
	WFA 4443 Offithology WFA 4453 Ichthyology	
	WFA 4463 Human Dimensions of F&W	
	Management Dimensions of Tee W	
	1.344.49	
Sustainable Bioproducts	30 hour option. From the list below, choose 30	Open to any
	hours.	student with
		AAS degree
	SBP 3113 Biomaterial Physics and Mechanics	
	SBP 3123 Biomass to Bioproducts	
	SBP 3143 Biomass Characterization and	
	Production	
	l ·	
	_	
	·	
	SRP 1213 Deterioration and Procorrection of	
	SBP 4213 Deterioration and Preservation of	
	Biomaterials	
	Biomaterials SBP 4263 Furniture Design and Fabrication	
	Biomaterials SBP 4263 Furniture Design and Fabrication SBP 4243 Sustainable Bioproducts	
	Biomaterials SBP 4263 Furniture Design and Fabrication SBP 4243 Sustainable Bioproducts SBP 4144 Composite Application and	
	Biomaterials SBP 4263 Furniture Design and Fabrication SBP 4243 Sustainable Bioproducts	
	SBP 4013 Wood Anatomy SBP 4023 Lignocellulosic Biomass Chemistry SBP 4113 Adhesives and Bio-composites SBP 4123 Lumber Manufacture SBP 4133 Biorefinery Processes SBP 4153 Biological Conversion of Biomass	

SBP 4353 Forest Products Marketing

20-23 hour option(s). From the list below, choose 20-23 hours.

SBP 3113 Biomaterial Physics and Mechanics

SBP 3123 Biomass to Bioproducts

SBP 3143 Biomass Characterization and

Production

SBP 4013 Wood Anatomy

SBP 4113 Adhesives and Bio-composites

SBP 4213 Deterioration and Preservation of

Biomaterials

SBP 4144 Composite Application and

Manufacturing

SBP 4253 Quantitative Methods in SBP

SBP 4353 Forest Products Marketing

EN 3313 Writing for the Workplace PHI 3013 Business Ethics PSY 4813 Positive Psychology HI 4243 American Life & Thought