





## 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**

IE 4333 PC  
IE 4653 Quality  
IE 4753 Systems Engineering

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)

	<p>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</p> <p>The Fashion Design and Merchandising (FDM) program in the School of Human Sciences (SHS), College of Agriculture and Life Sciences (CAL S) will offer the Retail Certificate as an emphasis area for the Bachelor of Applied Science (BAS).</p> <p><b>Requirements:</b> 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.</p> <p>Student will need to pick up a second emphasis area (10-15 upper level credit hours) General Business is a recommended emphasis area.</p> <p><b>Total credit hours 120 including electives.</b></p>	
<p><b>Biochemistry</b></p>	<p>If students complete <b>ONE</b> Emphasis Area (30 hours):</p> <ul style="list-style-type: none"> <li>BCH 4603 General Biochemistry I (pre-req: CH 4523 Organic Chemistry II)</li> <li>BCH 4613 General Biochemistry II (pre-req: CH 4523 Organic Chemistry II)</li> <li>BCH 4713 Molecular Biology</li> <li>BCH 4503 Scientific Communication Skills</li> <li>BCH 4623 Biochemistry of Specialized Tissues</li> <li>BCH 4414 Protein Methods</li> <li>BCH 4804 Molecular Methods</li> <li>BCH 3901 Senior Seminar</li> <li>6 hours of BCH electives.</li> </ul> <p>If students pursue <b>TWO</b> Emphasis Areas (15 hours):</p> <ul style="list-style-type: none"> <li>BCH 4603 General Biochemistry I (pre-req: CH 4523 Organic Chemistry II)</li> <li>BCH 4613 General Biochemistry II (pre-req: CH 4523 Organic Chemistry II)</li> <li>BCH 4713 Molecular Biology</li> </ul>	<p>Open to any student with AAS degree</p>





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



	<p>AELC 4503- International Ag Education AELC 4613 Teaching Ag Mechanics</p> <p>If student puruse <b>Three</b> emphasis areas: (10 hours)</p> <p>AELC 2413 - Orientation to Agricultural Education, Leadership &amp; Communications AELC 3803 - Foundations of Leadership in Agriculture and Life Sciences AELC 4424 - Teaching Methods in Agricultural and Human Sciences</p>	
<p><b>Animal and Dairy Sciences</b></p>	<p>If students complete <b>ONE</b> Emphasis Area (30 hours) <b>Animal &amp; Dairy Sciences</b></p> <p>ADS 1113 Animal Science ADS 1121 Animal Science Lab ADS 3014 Anatomy &amp; Physiology ADS 3314 Intro to Meat Science ADS 4114 Animal Nutrition (Pre-req: CH 2503 or CH 4513) ADS 4213 Feeds &amp; Feeding (Pre-req: ADS 4114) ADS 4613 Physiology of Reproduction (Pre-reqs: 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)</p> <p>If students pursue <b>TWO</b> Emphasis Areas (15 hours) <b>Equine Science</b></p> <p>ADS 1111 Orientation to ADS ADS 2102 Equine Conformation &amp; 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)</p>	<p>Open to any student with AAS degree</p>

College of Education		
<b>Manufacturing Fundamentals</b>	<p>Students will be required to take four required and one of two elective courses as part of a 15-hour emphasis area:</p> <ul style="list-style-type: none"> <li>INDT 3063 Industrial Human Relations - Required</li> <li>INDT 3813 Writing for Industry - Required</li> <li>INDT 4233 Maintenance Management - Required</li> <li>INDT 4263 Manufacturing Technology &amp; Proc Required</li> <li>INDT 4213 Energy Source &amp; Power - Elective</li> <li>INDT 4463 Manufacturing Technology &amp; Proc II Elective</li> </ul>	Open to any student with AAS degree

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

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

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

**30 credit hour emphasis (single emphasis area)**

- Required
  - a. EPY 3503
  - b.

	<ol style="list-style-type: none"> <li>3. EPY 3513 Writing in the Behavioral Sciences</li> <li>4. EPY 3543 Psychology of Adolescents</li> <li>5. EPY 4033 Application of Learning Theories (prerequisite EPY 3513)</li> <li>6. EPY 4073 Personality and Motivation</li> <li>7. EPY 4103 ABA for Behavior Technicians**</li> <li>8. EPY 4113 Principles of Behavior Analysis**</li> <li>9. EPY 4214 Educational and Psychological Studies</li> <li>10. EPY 4223 Applications of Applied Behavioral Analysis**</li> <li>11. EPY 4313 Measurement and Evaluation</li> <li>12. EPY 4443 Basics of Single Subject Design**</li> <li>13. EPY 4493 Behavioral Assessment**</li> <li>14. EPY 4513 Educational Research (prerequisites EPY 3503 and EPY 4214)</li> <li>15. EPY 4553 Creativity/Innovations</li> <li>16. EPY 4603 Ethics, Supervision, and Personnel Management in Behavior Analysis</li> <li>17. EPY 4683 Advanced Issues in Educational Psychology (prerequisites EPY 3503 and EPY 3513)</li> </ol> <p><i>*EPY 3503 is required across all emphasis options</i>  <i>**EPY 4103, 4113, 4223, 4443, &amp; 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.</i></p>	
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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**

	<p><b>Six hours</b> of any upper division meteorology or climate course, such as:</p> <ul style="list-style-type: none"> <li>GR 4553 Computer Methods in Meteorology,</li> <li>GR 4613 Applied Climatology,</li> <li>GR 4643 Physical Climatology,</li> <li>GR 4733 Synoptic Meteorology,</li> <li>GR 4623 Physical Meteorology,</li> <li>GR 4813 Natural Hazards,</li> <li>GR 4783 Satellite Meteorology,</li> <li>GR 4883 Radar Meteorology,</li> <li>GR 4422 Weather Forecasting 1,</li> <li>GR 4432 Weather Forecasting 2,</li> <li>GR 4843 Field Methods of Severe Local Storms,</li> <li>GR 4963 Mesoscale Meteorology</li> </ul> <p><b>Professional Geology Focus</b>  GG 1113 Survey Earth Science 1 and GG 1111 Survey Earth Science 1 Lab</p> <p><b>Six hours</b> of any upper division geology courses, such as:</p> <ul style="list-style-type: none"> <li>GG 3603 Intro to Oceanography,</li> <li>GG 3613 Water Resources,</li> <li>GG 4133 Principles of Paleoecology,</li> <li>GG 4414 Minerology,</li> <li>GG 4123 Petrology,</li> <li>GG 4153 Engineering Geology,</li> <li>GG 4304 Principles of Sedimentary Deposits 1</li> </ul> <p><b>Geospatial Focus</b>  GR 4303 Principles of GIS  GR 4333 Remote Sensing</p> <p><b>Six hours</b> of any geospatial courses, such as:</p> <ul style="list-style-type: none"> <li>GR 4323 Cartographic Sciences,</li> <li>GR 4353 Geodatabase Design,</li> <li>GR 4363 GIS Programming,</li> <li>GR 4343 Advanced Remote Sensing</li> </ul> <p><b>Geography Focus</b>  GR 1123 World Regional Geography  GR 4203 Geography of North America</p> <p><b>Four to six hours</b> of any regional geography course, such as:</p> <ul style="list-style-type: none"> <li>GR 4123 Urban Geography, GR 4223 Geography of Europe, GR 4233 Geography of Asia, GR 4243 Geography of Russia, GR 4253</li> </ul>	
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	<p>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</p> <p><b>Geography Focus</b>  GR 1123 World Regional Geography  GR 2303 Cultural Geography  GR 4303 Principles of GIS  GR 4203 Geography of North America  GR 4213 Urban Geography</p> <p><b>Regional Geography Course</b>, 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</p> <p><b>Six hours</b> of upper level geography or geology courses</p> <p><b>Campus 5 (Online/Distance)</b>  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</p> <p><b>Three hours</b> upper level geography or geology elective, such as:  GR 4603 Climatology,  GR 4633 Statistical Climatology,  GG 3603 Oceanography,  GG 3613 Water Resources</p>	
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**History**

**10-12 hour concentration**

Open to any student with AAS degree

Either HI 1063-1073 OR HI 1213-1223  
And any two 4000 level history courses

**20-21 hour concentration**

Either HI 1063-1073 OR HI 1213-1223

HI 4193 US Environm

HI 4653 Hist of Scie

Either or both HI 4373 Culture and

History and HI 4273 American History

Any other 3000 level history course (two 3000 and one 4000 level, one from the group above)

**30-hour concentration**

Either HI 1063-1073 OR HI 1213-1223

HI 4193 US Environm

HI 4653 Hist of Scie

Either or both HI 4373 Culture and

History and HI 4273 American History

Other three 3000 level history courses (two 3000-4000 level, one from the group above).





f. NREC 4413 Natural Resource Policy

**Plus two** of any FO or NREC course 3000 or higher

**3. 30-33 hours**

	<ul style="list-style-type: none"> <li>i. FO 4313 Spatial Technology in Natural Resources</li> <li>j. FO 4413 Natural Resource Policy</li> </ul>	
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**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-**

	<p>WFA 1102 Wildlife Professions  WFA 3133 Applied Ecology  WFA 4243 Wildlife Techniques  WFA 4153 Principles of Wildlife Conservation/Management</p> <p><b>Plus seven or eight</b> of the following to sum to 32-35 hours:</p> <p>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&amp;F Administration and Communication  WFA 4373 Conservation in Ag Landscapes  WFA 4383 Wetlands Ecology  WFA 4423 Herpetology  WFA 4433 Mammalogy  WFA 4443 Ornithology  WFA 4453 Ichthyology  WFA 4463 Human Dimensions of F&amp;W Management</p>	
<p><b>Sustainable Bioproducts</b></p>	<p><b>30 hour option. From the list below, choose 30 hours.</b></p> <p>SBP 3113 Biomaterial Physics and Mechanics  SBP 3123 Biomass to Bioproducts  SBP 3143 Biomass Characterization and Production  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 4213 Deterioration and Preservation of Biomaterials  SBP 4263 Furniture Design and Fabrication  SBP 4243 Sustainable Bioproducts  SBP 4144 Composite Application and Manufacturing  SBP 4253 Quantitative Methods in SBP  SBP 4313 Bioproducts and the Environment</p>	<p>Open to any student with AAS degree</p>

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

