

CURRICULUM/GEN ED COMMITTEE

Minutes: June 3, 2009

CURRICULUM/GEN ED COMMITTEE
a standing committee of the Education Advisory Committee
Sylvania CC, Conference Rm B

x	Scot Leavitt, Chair	x	Pam Kessinger	x	Ed DeGrauw
x	Doris Werkman		Marc Spaziani	x	Jim Parks
x	Scott Quinn	x	Tammy Dowd		Joe Wright
x	Nancy Hutt	x	Rick Willebrand	x	Jim Jeffery
	Bob Allen	x	Heiko Spoddeck		Andrew Cohen

Committee Support:

	Birgette Ryslinge	x	Dorothy Badri		Andrew Roessler
x	Stacey Timmins	x	Leslie Hackett		Steve Smith
	Sherry Hanchett	x	Sally Earll		Amy Alday-Murray

Guests:

Colin Goble	Gayathri Iyer	Jerry Brask
Ish Rivas	Cynthia Killingsworth	Ron Bekey
Holly King	Allen Jones	Kendra Cawley
Shery Stohs	Cottrell White	Jan Abushakrah
Dave Stout	Michael Morrow	Tom Lieurance
Grace Windsceimer	Juanita Head Walton	Art Schneider
Greg Kerr	Larry Altree	

Information Items from the Curriculum Office:
(These items do not require curriculum committee recommendation)

Experimental Courses:

- D 199J – Dance Appreciation
- CAS 299 – Introduction to PHP
- TA 199E – Introduction to Film Criticism

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Inactivations:

SPA 111B
SPA 112A
SPA 112B
SPA 211A
SPA 212A
SPA 212B
SPA 213B
SPA 260B
SPA 261A
SPA 262B
SPA 262C
SPA 270B
SPA 270C
SPA 271B
SPA 271C
SPA 272B
SPA 272C
SPA 290C
SPA 291B
SPA 291C
SPA 292A
SPA 292B
SPA 292C
AMT 126
AMT 227
AMT 229

Old Business:

245. AD 101 – Alcohol Use and Addiction

Course Revision – Outcomes

Postponed at SAC Request

400. LA 130 – Legal Software

Contact/Credit Hour Change

Recommend with description:

Provides training in a variety of specialized legal software applications through lecture, discussion and other classroom activities in current legal software applications, which include legal software used for conflict-checking, timekeeping, litigation support and trial preparation. Recommend: CAS 133. Prerequisite: LA 101.

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443. CS 201 – Computer Systems II

Course Revision – Title, Description, Outcomes

Recommend with description:

Introduces computer systems from a software perspective. Provides an overview of C and assembly language programming and reading skills. Learn basic systems programming skills and tools, measure and improve program performance based on an understanding of key aspects of machine architecture.

And with outcomes:

Upon completion of this course, students should be able to:

- Employ a deep knowledge of computer systems architecture to enhance the correctness, performance, and utility of the application or system software that they may write.
- Identify how such programs work and how to troubleshoot and fix them when they break.
- Be successful in subsequent college level Computer Science coursework.

445. DST 110 – Caterpillar Engine Fundamentals

Contact/Credit Hour Change

Recommend

446. DST 111 – Intro to Caterpillar Service Industry

Contact/Credit Hour Change

Recommend with Contact Hours:

Lecture: 20 Contact Hours; Lec/Lab: 20 Contact Hours.

447. DST 150 – Caterpillar Service Technology Internship

Contact/Credit Hour Change

Postponed at SAC Request

New Business:

450. RET 121 – Wind Mechanical Systems I

Course Revision – Title, Description, Requisites

Recommend with description:

Introduces the fundamentals of mechanical power with an emphasis on the different mechanical components from nuts and bolts to gears, gear boxes, shafts and bearings. Review lubrication and the importance to maintaining gears and other movable parts. Basic alignment and mechanical physics including fluid dynamics are covered.

451. RET 122 – Wind Mechanical Systems II

Course Revision – Title, Description, Outcomes

Recommend with outcomes:

Upon finishing this course, students will be able to:

1. work in the power generation field understanding the process of power generation and the assembly, maintenance and operation of the machinery.
2. practice safety processes and procedures and work safely around cranes and other heavy machinery.
3. work safely alone and within a team on power Generation projects.

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452. RET 223 – Wind Mechanical Systems III

Course Revision – Title, Description, Outcomes

Recommend with outcomes:

Upon finishing this course, students will be able to:

- read and analyze topographic and wind maps with the goal of assessing the viability of developing power generation facilities on newly acquired land.
- forecast local weather on a short-term basis to determine if upcoming changes in the weather pose a safety hazard for working in the field.
- complete all office work relating to the power generation field, including maintaining parts inventories, placing work orders, writing reports, and other administrative and/or managerial tasks.
- work safely, both alone and within a team, on power generation tasks.

453. BA 240 – Governmental Accounting

Course Revision – Title, Description, Requisites, Outcomes

Recommend

454. BA 240 – Governmental Accounting

Contact/Credit Hour Change – Proposed 4 credits

Recommend

455. CS 162 – Computer Science II

Course Revision – Description

Recommend with description:

Programming using a high level programming language. Topics include: Conditionals, I/O, Files, Functions, Classes, Pointers, Dynamic Memory, Linear Linked lists, and Multi-Dimensional Arrays. Program correctness, verification, and testing. Recommended: MTH 112; WR 121; CS 140U, CS161 or one term equivalent programming experience.

And with outcomes:

On completion of this course students should be able to:

- Employ a deep knowledge of the procedural paradigm and a recognized software development methodology to develop computer programs.
- Design and construct simple object-oriented software with an appreciation for data abstraction and information hiding.
- Effectively use software development tools including libraries, compilers, editors, linkers and debuggers to write and troubleshoot programs.
- Be successful in subsequent college level Computer Science coursework.

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456. CS 250 – Discrete Structures I

New Course

Recommend with description:

Introduces discrete structures and techniques for computing sets, graphs and trees. Construct simple functions, and recursive definitions. Other topics include relational properties, equivalence, partial order, proof techniques, inductive proof, counting techniques and discrete probability. Recommended: MTH 251.

And with outcomes:

Upon the successful completion of this course students will be able to:

- Formulate, interpret, and apply mathematical concepts especially, techniques for computing sets, graphs and trees, recursive definitions, and discrete probability in real world contexts.
- Use analytical problem solving strategies to solve problems using multiple approaches and to interpret the results in practical terms.
- Utilize those techniques in discrete mathematics and logic that are used in the study and practice of computer science.
- Be successful in subsequent coursework in the mathematical foundation of Computer Science.

457. CS 251 – Discrete Structures II

New Course

Recommend with description:

Introduces formal logic including propositional calculus and first-order predicate calculus. Presents techniques of formal reasoning including natural deduction and resolution with application to program correctness and automatic reasoning. Introduction to algebraic structures in computing. Recommended: CS 250

And with outcomes:

Upon the successful completion of this course students will be able to:

- Formulate, interpret, and apply properties of propositional and first-order predicate calculus in real world contexts.
- Use analytical problem solving strategies to solve problems using multiple approaches and to interpret the results in practical terms.
- Utilize those techniques in discrete mathematics and logic that are used in the study and practice of computer science.
- Be successful in subsequent coursework in the mathematical foundation of Computer Science.

458. CAS 133 – Basic Computer Skills/MS Office

Course Revision – Description, Outcomes

Withdrawn at SAC Request

459. CAS 225 – Introduction to PHP

New Course

Recommend

460. HOR 291 – Landscape Design Process

Course Revision – Requisites

Recommend requisites:

Prerequisite: HOR 226, 227, 228, 290; LAT 108, 110, and 111.

Prerequisite/concurrent: LAT 217

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461. LAT 214 – Plant Composition

Course Revision – Requisites

Recommend

462. ARCH 247 – Intermediate Revit Architecture

New Course

Postponed at SAC Request

463. NRS 221 – Nursing in Chronic Illness and End of Life

New Course

Recommend with title:

Title: Chronic II

And with requisites:

Prerequisite: Completion of first year Nursing courses.

And with Contact Hours:

Lecture: 50 contact hours; Lab: 120 contact hours

464. NRS 222 – Nursing in Acute Care II and End of Life

New Course

Recommend with requisites:

Prerequisite: NRS 221

And with Contact Hours:

Lecture: 50 contact hours; Lab: 120 contact hours

465. NRS 224 – Integrative Practicum I

New Course

Recommend with requisites:

Prerequisite: NRS 222

And with Contact Hours:

Lecture: 20 contact hours; Lab: 210 contact hours

466. SP 100 – Introduction to Speech Communication

Course Revision – Outcomes

Recommend with outcomes:

1. Use a newly gained understanding of the cause and effect of communication behaviors to begin to reduce miscommunication with others
2. Use the insight into filters created through the framework of culture, society, organizations, family, and self in order to make responsible personal choices in many types of relationships
3. Continue to explore different areas of communication in order to expand a broad-base of skills and communicative tools when interacting with others.

467. SP 101 – Oral Communication Skills

Course Revision – Outcomes

Recommend

468. SP 105 – Listening

Course Revision – Outcomes

Recommend

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469. SP 110 – Fundamentals of Voice & Articulation

Course Revision – Outcomes

Recommend

470. SP 111 – Public Speaking

Course Revision – Outcomes

Recommend

471. SP 112 – Persuasion and Argumentation

Course Revision – Outcomes

Recommend

472. SP 140 – Introduction to Intercultural Communication

Course Revision – Outcomes

Recommend

473. SP 212 – Voice and Diction

Course Revision – Outcomes

Recommend with outcomes:

1. Use learned skills to continue to improve effective speech.
2. Manage voice production and articulation by understanding basic speech physiology, acoustics, and phonetics
3. Continue to use learned speech tools, such as Standard American Speech, in order to continue to build communication competence and mutual understanding

474. SP 214 – Interpersonal Communication: Process & Theory

Course Revision – Outcomes

Recommend

475. SP 215 – Small Group Communication: Process & Theory

Course Revision – Outcomes

Recommend

476. SP 227 – Nonverbal Communication

Course Revision – Outcomes

Recommend

477. SP 228 – Mass Communication

Course Revision – Outcomes

Recommend

478. SP 229 – Oral Interpretation

Course Revision – Outcomes

Recommend

479. SP 237 – Gender and Communication

Course Revision – Outcomes

Recommend

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480. SP 270 – Forensics: Speech & Debate
Course Revision – Outcomes

Recommend

481. SP 270B – Projects in Public Speaking
Course Revision – Outcomes

Recommend

482. PSY 236 – Psychology of Adult Development and Aging
Designation Request - GenEd

Postponed at SAC Request

483. FMT 265 – Building Commissioning I
New Course

Recommend with requisites:

Prerequisite: Placement into WR 121 and MTH 20, or department permission.

484. APR 100 – Exploring Trades and Apprenticeship
Contact/Credit Hour Change – Proposed 1 credit

Recommend

485. APR 150 – Pre-Apprenticeship Construction Training
New Course

Recommend with contact hours:

Lecture: 30 contact hours; Lec/lab: 60 contact hours; Lab: 0 (zero) contact hours

486. CJA 214 – Criminal Investigation
Course Revision – Requisites, Outcomes

Recommend

487. MUC 124 –Electronic Media II
Course Revision – Requisites

Recommend

488. MUC 125 – Electronic Media III
Course Revision – Requisites

Recommend

489. MUC 155B – Improvisation II
Course Revision – Requisites

Recommend

490. MUC 155C – Improvisation III
Course Revision – Requisites

Recommend

491. ART 220 – Advanced Lettering and Seminar
Course Revision – Description

Recommend

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492. ITAL 101 – First Year Italian – First Term

New Course

Recommend with outcomes:

- Manage common interactions in Italian, in highly predictable settings, using basic vocabulary and present tense.
- Begin to apply language-learning skills.
- Recognize and begins to appreciate linguistic and cultural diversity within the Italian-speaking world.

493. WS 201 – Women of the World

Course Revision – Requisites

Recommend

494. GRN 170 – Resident Assistant I Training

New Course

Recommend description:

Provides direct care workers in Assisted Living Facilities the knowledge and skills for both entry and performance levels as a Resident Assistant I, as described by the occupational profiles for that position. The modular, work-based training is designed to establish person-centered care competency levels in the areas of team roles and responsibilities, infection control, service plans, safety, physical effects of aging, and medications.

495. GRN 171- Resident Assistant II Training

New Course

Recommend with outcomes:

Upon completion of this course, the student will be able to:

- Performance Resident Assistant I and II responsibilities, within the person-centered care model, and provide teamwork support to Resident Assistant I's.
- Assume designated communication, liaison, and coordination roles with family, doctors, nurses, pharmacists and other service providers.
- Handle emergency situations, monitor safety, and follow up on quality complaints according to facility policies and procedures
- Manage the administration and required documentation of medications and assistive devices according to doctor orders and facility policies and procedures
- Provide written documentation related to service plans, alert charting, 24 hour reporting, care notes and emergent situations
- Demonstrate commitment to supporting the quality of life of older and disabled persons.

496. SC 11A – Applied Math

Course Revision – Title, Description, Requisites, Outcomes

Recommend with outcomes:

Upon successful completion of this course students will be able to:

- Take the GED mathematics test and CASAS Assessment and further applied mathematics courses in college
- Transition to employment or pre-trades and apprenticeship programs.
- Efficiently apply mathematical skills to organize and solve real world math application problems in a variety of environments for their personal and professional lives.
- Participate as a team member, analyze data and determine appropriate solutions

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497. SC 11B – Applied Math

Course Revision – Title, Outcomes

Recommend with outcomes:

Upon successful completion of this course, students will be able to:

- Successfully complete Intermediate/Advanced Mathematics Course (SC11A)
- Transition to employment or pre-trades
- Efficiently apply fundamental mathematical skills to organize and solve basic real world math problems in their personal and professional lives
- Participate as a team member to analyze data and determine basic solutions

498. CG 114 – Financial Survival for College Students

New Course

Recommend with requisites:

Prerequisite: WR 90, RD 90, and MTH 20 or equivalent placement test scores.

499. AVS 115 – Helicopter: Private Flight

Course Revision

Recommend with description:

Familiarizes student with the operation of helicopters. Fundamentals of flight, emergency procedures, air traffic control and operational procedures are explored. Prepares student for the FAA Private Pilot Rotocraft Helicopter practical test. The AVS-111, 112, 113 sequence is an equivalent alternative to this course. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. Prereq: MTH 60, WR 115 and AVS-127. Corequisites: AVS-107 and AVS-110.

And with outcomes:

1. Apply for and take the FAA Private Pilot practical test.
2. Obtain certification as a Private Pilot Rotorcraft Helicopter.
3. Take responsibility as Pilot In Command to competently perform preflight duties and all other procedures necessary for the safe conduct of a flight as a Private Pilot.
4. Exercise safe judgment in all flight related decisions.

500. AVS 125 – Airplane: Private Flight

Course Revision – Description, Requisites

Recommend with description:

Familiarizes student with operation of single engine aircraft. Fundamentals of flight, air traffic control and operational procedures are explored. Prepares student for the FAA Private Pilot Airplane practical test. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. Prereqs: MTH 60, WR 115 and AVS-127. The AVS-121, 122, 123 sequence is an alternative equivalent to this course. Coreq: AVS-107 and AVS-120.

And with outcomes:

1. Apply for and take the FAA Private Pilot practical test.
2. Obtain certification as a Private Pilot, Single Engine Land.
3. Exercise safe judgment in all flight related decisions.
4. Take responsibility as Pilot In Command to competently conduct the planning, preflight action, weather analysis and other procedures necessary to safely conduct flights appropriate to a Private Pilot certificate.

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501. AVS 135 – Airplane: Instrument Flight

Course Revision – Description

Recommend with description:

Receive training in instrument flight operations including basic attitude instrument skills, radio navigation, departure and approach procedures and instrument cross-country planning and flying. Prepares student for the FAA Instrument Rating - Airplane practical test. The AVS-131, 132, 133 sequence is an equivalent alternative to this course. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. Prerequisite: AVS 125 or AVS-123. Corequisites: AVS-107 and AVS-130

And with outcomes:

1. Apply for and take the FAA Instrument Rating practical test.
2. Obtain an Instrument Rating.
3. Conduct flights typical for a Private Pilot under instrument flight rules while maintaining situational awareness and exercising safe judgment in all flight related decisions.

502. AVS 145 – Intro to Commercial Airplane

Course Revision – Description

Recommend with description:

Begins commercial pilot training activities and includes cross-country flight operations and a review of previous items learned during private pilot training. Students will learn how to plan and execute a cross-country flight as a commercial pilot. The AVS-141, 142, 143 sequence is an equivalent alternative to this course. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information.

Prerequisites: AVS 135 or AVS-133. Corequisite: AVS 107 and AVS 140.

And with outcomes:

1. Plan and execute cross-country flights to the standards of a commercial pilot.
2. Take responsibility as Pilot In Command to approach cross-country flights with confidence and authority.
3. Exercise sound judgment and make safe decisions while maintaining contingency plans and a high level of situational awareness during cross-country flights.

503. AVS 155 – Helicopter: Intro to Commercial Flight

Course Revision – Description

Recommend with description:

Begins the commercial pilot training activities. Cross-country flight procedures and emergency maneuvers are the focus. Students must hold a private pilot certificate prior to enrollment. The AVS-151, 152, 153 sequence is an equivalent alternative to this course. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. Prereq: AVS-115 or AVS-113. Coreq: AVS-107 and AVS-150

And with outcomes:

1. Perform maximum performance takeoffs, steep approaches and slope landings with no instructor assistance.
2. Plan and execute an assigned cross-country flight to commercial pilot standards.
4. Approach cross-country flights with confidence and authority.
3. Maintain contingency plans and a high level of situational awareness during cross-country flights.

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504. AVS 205 – Helicopter: Commercial Flight A

Course Revision – Description

Recommend with description:

Continues the Commercial Pilot Rotorcraft Helicopter training activities and includes cross-country flight operations and a review of previous items learned during the introduction to Commercial Pilot training. Increase knowledge about efficiently planning and executing cross-country flights as well as off airport operations required for commercial pilots. Does not include training for the instrument rating. The AVS-211, 213, 214 sequence is an equivalent alternative to this course. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. Prereq: AVS-153 or AVS-155. Coreq: AVS-207

And with outcomes:

1. Schedule and take a Commercial Helicopter FAA practical test.
2. Obtain a Commercial Helicopter certificate.
3. Exercise good judgment and make safe decisions as a Commercial Pilot in VFR operations.

505. AVS 215 – Helicopter: Commercial Flight B

Course Revision – Description

Recommend with description:

Continues the Commercial Pilot Rotorcraft Helicopter training activities and includes cross-country flight operations and a review of previous items learned during the introduction to Commercial Pilot training. Increase knowledge about efficiently planning and executing cross-country flights as well as off airport operations required for commercial pilots. Does not include training for the instrument rating. The AVS-211, 213, 214 sequence is an equivalent alternative to this course. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. Prereq: AVS-153 or AVS-155. Coreq: AVS-207

And with outcomes:

1. Schedule and take a Commercial Helicopter FAA practical test.
2. Obtain a Commercial Helicopter certificate.
3. Schedule and take a Helicopter Instrument practical test.
4. Obtain an Instrument rating.
5. Exercise good judgment and make safe decisions as a Commercial Pilot in both VFR and IFR operations.

503. AVS 225 – Airplane: Commercial Flight

Course Revision – Description

Recommend with description:

Concludes commercial pilot training activities and includes complex flight operations, multi-engine operations, advanced systems and performance maneuvers. Students will be prepared to take the Commercial Pilot single-engine land practical test and the multi-engine land additional class rating practical test upon successful completion of the course. The AVS-221, 222, 223, 224 sequence is an equivalent alternative to this course. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. Prerequisites: AVS-143 or AVS 145. Co-requisite: AVS 207.

And with outcomes:

1. Apply for and take the practical test for a Commercial certificate with Airplane Multi-Engine-Land rating.
2. Obtain the Commercial certificate with Airplane Single- and Multi-Engine-Land ratings.
3. Exercise good judgment and make safe decisions as a Commercial Pilot.

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504. AVS 235 – Airplane: Flight Instructor Flight

Course Revision – Description

Recommend with description:

Provides a structured environment to learn to fly the aircraft from the instructor's seat. Learn to explain, demonstrate and to assess flight performance. Prepares students for the FAA Flight Instructor practical test. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. Prerequisite: AVS-224 or AVS-225. Corequisites: AVS-207 and AVS -230. The AVS-231, 232 sequence is an equivalent alternative to this course.

And with outcomes:

1. Fly required maneuvers in both complex and non-complex airplanes to FAA Practical Test Standards from the right (instructor) seat.
2. Apply for and take the FAA Flight Instructor practical test.
3. Provide safe, high-quality flight instruction to students seeking FAA Pilot Certificates.

505. AVS 241 – Airplane: CFII Ground/Flight

Course Revision – Description

Recommend

506. AVS 242 – Airplane: MEI Ground/Flight

Course Revision – Description

Recommend

507. AVS 255 – Airplane: Pilot Performance

Course Revision – Description

Recommend with description:

Designed to expose students to Cockpit Resource Management. Focuses on workload management and check list usage. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information.

508. AVS 265 – Helicopter: Flight Instructor Flight

Course Revision – Description

Recommend with description:

Provides a structured environment to learn to fly the helicopter from the instructor's seat. Learn to explain, demonstrate and to assess flight performance. Prepares students for the FAA Flight Instructor practical test. The AVS-261, 262, 263 sequence is an equivalent alternative to this course. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. Prereq: AVS-205 or 214 or 215. Coreq: AVS-207 and AVS-260.

And with outcomes:

1. Fly required maneuvers from the left (instructor) seat to FAA Practical Test Standards.
2. Schedule and take the FAA CFI practical test.
3. Obtain a Certified Flight Instructor certificate.
4. Provide safe, high-quality flight instruction to students seeking FAA Pilot Certificates.

509. AVS 275 – Airplane: Professional Pilot

Course Revision – Description

Recommend

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510. AVS 111 – Helicopter: Pre-Solo

New Course

Recommend with description:

Introduces basic and emergency helicopter maneuvers necessary for flight in the local area. Prepares the student for their first local solo flights. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-111, 112, 113 sequence is an alternative equivalent to AVS-115. Coreq: AVS-107 and AVS-110. Prereq: MTH 60, WR 115 and AVS-127.

And with outcomes:

1. Take responsibility as Pilot In Command to competently perform preflight duties and all other procedures necessary for the safe conduct of a solo flight in the local training area.
2. Exercise safe judgment in all flight related decisions.

511. AVS 112 – Helicopter: Private Cross-Country

New Course

Recommend with description:

Introduces planning and flight skills and procedures appropriate to cross-country and night flight. Students who successfully complete this course will conduct their solo cross-country flight as part of the course. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-111, 112, 113 sequence is an alternative equivalent to AVS-115. Coreq: AVS-107. Prereq: AVS-111.

And with outcomes:

1. Take responsibility as Pilot In Command to competently conduct the planning, preflight action, weather analysis and other procedures necessary to safely conduct cross-country flights appropriate to a Private Pilot certificate.
2. Exercise safe judgment in all flight related decisions.

512. AVS 113 – Helicopter: Private Proficiency

New Course

Recommend with description:

Preparation to take the FAA Helicopter Private practical test. Emphasis is on proficiency in the flight maneuvers, thorough preflight actions and exercising safe decision-making. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-111, 112, 113 sequence is an alternative equivalent to AVS-115. Coreq: AVS-107. Prereq: AVS-112.

And with outcomes:

1. Apply for and take the FAA Private Pilot practical test.
2. Obtain certification as a Private Pilot Rotorcraft Helicopter.
3. Exercise safe judgment in all flight related decisions.

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513. AVS 121 – Airplane: Pre-Solo Flight

New Course

Recommend with description:

Introduces basic airplane handling, emergency procedures and local flight operations. Students who successfully complete this course will conduct their first local solo flight as part of the course. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-121, 122, 123 sequence is an alternative equivalent to AVS-125. Prereqs: MTH 60, WR 115 and AVS-127. Coreq: AVS-107 and AVS-120.

And with outcomes:

1. Take responsibility as Pilot In Command to competently perform preflight duties and all other procedures necessary for the safe conduct of a solo flight in the local training area.
2. Exercise safe judgment in all flight related decisions.

514. AVS 122 – Airplane: Pre-Cross-Country Flight

New Course

Recommend with description:

Introduces planning and flight skills and procedures appropriate to cross-country and night flight. Includes some training by reference to instruments. Students who successfully complete this course will conduct their first solo cross-country flight as part of the course. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-121, 122, 123 sequence is an alternative equivalent to AVS-125. Coreq: AVS-107. Prereq: AVS-121

And with outcomes:

1. Take responsibility as Pilot In Command to competently conduct the planning, preflight action, weather analysis and other procedures necessary to safely conduct cross-country flights appropriate to a Private Pilot certificate.
2. Exercise safe judgment in all flight related decisions.

515. AVS 123 – Airplane: Cross-Country/Test Prep

New Course

Recommend with description:

Student completes the cross-country requirements, including the long solo cross-country flight, and prepares to take the FAA practical test. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-121, 122, 123 sequence is an alternative equivalent to AVS-125. Coreq: AVS-107. Prereq: AVS-122.

And with outcomes:

1. Apply for and take the FAA Private Pilot practical test.
2. Obtain certification as a Private Pilot, Single Engine Land.
3. Exercise safe judgment in all flight related decisions.

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516. AVS 131 – Airplane: Instrument Attitude/Nav

New Course

Recommend with description:

Develops basic attitude instrument flying skills and radio navigation techniques as well as holding patterns. Students will fly in the airplane and in a simulator. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-131, 132, 133 sequence is an alternative equivalent to AVS-135. Coreq: AVS-107 and AVS-130. Prereq: AVS-123 or AVS-125.

And with outcomes:

1. Control the aircraft solely by reference to instruments, both with and without the attitude indicator and/or heading indicator, while performing basic flight maneuvers.
2. Navigate solely by reference to navigation instruments.
3. Properly enter and execute holding patterns at a variety of fixes.

517. AVS 132 – Airplane: Instrument Approaches

New Course

Recommend with description:

Develops knowledge of procedures relating to the departure and terminal phases of an instrument flight. Students will fly in the airplane and in a simulator. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-131, 132, 133 sequence is an alternative equivalent to AVS-135. Coreq: AVS-107. Prereq: AVS-131.

And with outcomes:

1. Appropriately divide attention between flying the airplane, navigating and communicating with Air Traffic Control in the instrument environment.
2. Execute standard instrument departures and approaches as published by the FAA.
3. Maintain situational awareness and exercise safe judgment in all flight related decisions.

518. AVS 133 – Airplane: Instrument Cross-Country

New Course

Recommend with description:

Develops knowledge of cross-country flight planning under Instrument Flight Rules. Covers lost-comm procedures. Includes preparation for the FAA practical test. Students will fly in the airplane and in a simulator. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-131, 132, 133 sequence is an alternative equivalent to AVS-135. Coreq: AVS-107. Prereq: AVS-132.

And with outcomes:

1. Apply for and take the FAA Instrument Rating practical test.
2. Obtain an Instrument Rating.
3. Conduct cross-country flights under instrument flight rules while maintaining situational awareness and exercising safe judgment in all flight related decisions.

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519. AVS 141 – Airplane: Commercial XC/Night Intro

New Course

Recommend with description:

Includes both day and night cross-country instruction as well as local and cross-country solo night flights. Emphasis is on commercial standards for planning, judgment and flying long distances during day and night visual conditions. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-141, 142, 143 sequence is an alternative equivalent to AVS-145. Coreq: AVS-107 and AVS-140. Prereq: AVS-133.

And with outcomes:

1. Plan and accomplish an assigned cross-country flight in VFR day or night conditions.
2. Apply detailed knowledge of the operational and safety considerations associated with night cross-country flying to conduct safe night flights.
3. Exercise safe judgment as Pilot In Command in all decisions regarding the execution of cross-country day and night flights.

520. AVS 142 – Airplane: Commercial XC Exploration

New Course

Recommend with description:

Provides the opportunity to build confidence in solo VFR cross-country planning and flying skills in a variety of terrain environments farther from the base of training. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-141, 142, 143 sequence is an alternative equivalent to AVS-145. Coreq: AVS-107. Prereq: AVS-141.

And with outcomes:

1. Approach long, multi-leg cross-country planning with confidence in their ability to both make sound judgments and execute the flight.
2. Take responsibility as Pilot In Command for all necessary preflight action for a safe flight.
3. Execute an assigned long cross-country, making safe go-no-go decisions and maintaining situational awareness and contingency plans at all times.

521. AVS 143 – Airplane: Commercial Precision XC

New Course

Recommend with description:

Focuses on increasing cross-country flying skills to Commercial Pilot standards. Emphasis will be on maintaining accurate course and arrival times while simultaneously maintaining situational awareness and making safe decisions. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-141, 142, 143 sequence is an alternative equivalent to AVS-145. Coreq: AVS-107. Prereq: AVS-142.

And with outcomes:

1. Plan and execute a cross-country flight to the standards of a commercial pilot.
2. Approach cross-country flights with confidence and authority.
3. Maintain contingency plans and a high level of situational awareness during cross-country flights.

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522. AVS 151 – Helicopter: Comm XC

New Course

Recommend with description:

Provides the opportunity for the student to build confidence in solo and cross-country operations and fulfill the cross-country requirements for the Commercial certificate. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-151, 152, 153 sequence is an alternative equivalent to AVS-155. Coreq: AVS-107 and 150. Prereq: AVS-113.

And with outcomes:

1. Approach cross-country flights with confidence and authority.
2. Conduct very thorough and accurate preflight planning using all available resources within reasonable time restrictions.
3. Fly a cross-country while maintaining an accurate ground track and arriving at the intended destination within 5 minutes of the estimated time of arrival.
4. Maintain contingency plans and a high level of situational awareness during cross-country flights.

523. AVS 152 – Helicopter: Commercial Basics

New Course

Recommend with description:

Introduces basic maneuvers required for the Commercial certificate. Includes solo lessons during which the student will review Private maneuvers. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-151, 152, 153 sequence is an alternative equivalent to AVS-155. Coreq: AVS-107. Prereq: AVS-151.

And with outcomes:

1. Uses a knowledge of the theory and procedures for performing the basic commercial maneuvers to advance their skills in performing these maneuvers.
2. Perform basic commercial maneuvers without instructor assistance.

524. AVS 153 – Helicopter: Commercial Basic Practice

New Course

Recommend with description:

Provides the opportunity for additional instruction in the basic commercial maneuvers as well as additional solo practice. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-151, 152, 153 sequence is an alternative equivalent to AVS-155. Coreq: AVS-107. Prereq: AVS-152.

And with outcomes:

1. Perform maximum performance takeoffs, steep approaches and slope landings with no instructor assistance.
2. Plan and execute an assigned cross-country flight to commercial pilot standards.
3. Approach cross-country flights with confidence and authority.
4. Maintain contingency plans and a high level of situational awareness during cross-country flights.

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525. AVS 211 – Helicopter: Instrument Intro

New Course

Recommend with description:

Introduces flight solely by reference to instrument and fulfills the instrument flight requirement for the commercial practical test. Also includes the opportunity for solo practice of VFR maneuvers. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-211, 212, 213, 214 sequence is an alternative equivalent to AVS-215 (without AVS-212 the sequence is equivalent to AVS-205). Coreq: AVS-207. Prereq: AVS-154.

And with outcomes:

1. Fly the helicopter solely by reference to the flight instruments as directed.
2. Perform assigned maneuvers safely and effectively.

526. AVS 212 – Helicopter: Instrument Procedures

New Course

Recommend with description:

Holding patterns and approach procedures are introduced and practiced in the simulator. Training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-211, 212, 213, 214 sequence is an alternative equivalent to AVS-215. Coreq: AVS-207 and AVS-130. Prereq: AVS-211.

And with outcomes:

1. Executes holding and approach procedures solely by reference to instruments in the helicopter simulator.

527. AVS 213 – Helicopter: Advanced Commercial

New Course

Recommend with description:

Provides both flight instruction in commercial maneuvers and solo practice of maneuvers required for the commercial certificate. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-211, 212, 213, 214 sequence is an alternative equivalent to AVS-215 (without AVS-212 the sequence is equivalent to AVS-205). Coreq: AVS-207. Prereq: AVS-211.

And with outcomes:

1. Executes commercial assigned commercial maneuvers to commercial practical test standards.

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528. AVS 214 – Helicopter: Commercial Test Prep

New Course

Recommend with description:

Preparation to take the FAA Commercial practical test. Includes night solo requirements. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-211, 212, 213, 214 sequence is an alternative equivalent to AVS-215 (without AVS-212 the sequence is equivalent to AVS-205). Coreq: AVS-207. Prereq: AVS-213

And with outcomes:

1. Schedules and takes the Helicopter Commercial practical test.
2. Procures FAA Commercial Rotorcraft Helicopter certificate.

529. AVS 221 – Airplane: Complex Airplanes

New Course

Recommend with description:

Introduction to the operation of single-engine airplanes with retractable landing gear and constant-speed propellers. Emphasis on checklist usage and systems management. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-221, 222, 223, 224 sequence is an alternative equivalent to AVS-225. Coreq: AVS-207. Prereq: AVS-143 or AVS-145.

And with outcomes:

1. Describe the function of a retractable landing gear system.
2. Describe the function of a constant-speed propeller system.
3. Operate a high-performance aircraft engine and complex aircraft systems in a safe and economical manner.
4. Use procedural checklists in a safe and efficient manner.

530. AVS 222 – Airplane: Commercial Maneuvers

New Course

Recommend with description:

Introduces the precision flight maneuvers required to be performed during the commercial practical test. Emphasis is on accurate procedures and safe practicing techniques. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-221, 222, 223, 224 sequence is an alternative equivalent to AVS-225. Coreq: AVS-207. Prereq: AVS-221.

And with outcomes:

1. Accurately describe each of the required commercial maneuvers, their practical application.
2. Apply knowledge of aerodynamics in describing the performance of each maneuver.
3. Practice the commercial maneuvers in a safe and productive manner.

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531. AVS 223 – Airplane: Commercial Proficiency

New Course

Recommend with description:

Preparation to take the Commercial Pilot Single-Engine-Land practical test. Emphasis is on safety, procedural discipline, smoothness and precision in all required maneuvers. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-221, 222, 223, 224 sequence is an alternative equivalent to AVS-225. Coreq: AVS-207. Prereq: AVS-222.

And with outcomes:

1. Apply for and take the practical test for a Commercial certificate with Airplane Single-Engine-Land rating.
2. Obtain the Commercial certificate with Airplane Single-Engine-Land rating.
3. Exercise good judgment and make safe decisions as a Commercial Pilot

532. AVS 224 – Airplane: Multi-Engine

New Course

Recommend with description:

Introduces and develops proficiency in flying multi-engine airplanes in both VFR and IFR operations. Prepares the student to take the Commercial Multi-Engine-Land practical test. Includes preparation work in simulators. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-221, 222, 223, 224 sequence is an alternative equivalent to AVS-225. Coreq: AVS-207. Prereq: AVS-223.

And with outcomes:

1. Apply for and take the practical test for a Commercial certificate with Airplane Multi-Engine-Land rating.
2. Obtain the Commercial certificate with Airplane Multi-Engine-Land rating
3. Exercise good judgment and make safe decisions as a Commercial Pilot.

533. AVS 231 – Airplane: CFI Intro

New Course

Recommend with description:

Introduction to flight from the right (instructor) seat and basic critique and analysis. Maneuvers from the Private and Commercial Practical Test Standards will be practiced. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-231, 232 sequence is an alternative equivalent to AVS-235. Coreq: AVS-207 and AVS-230. Prereq: AVS-224.

And with outcomes:

1. Fly required maneuvers in both complex and non-complex airplanes from the right (instructor) seat.
2. Conduct useful, constructive analysis and critique of both their instructor and their own flying.

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534. AVS 232 – Airplane: CFI Test Prep

New Course

Recommend with description:

Preparation for the Certified Flight Instructor practical test. Focus is on both teaching techniques and performance of the required maneuvers. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-231, 232 sequence is an alternative equivalent to AVS-235. Coreq: AVS-207. Prereq: AVS-231.

And with outcomes:

1. Apply for and take the FAA Flight Instructor practical test.
2. Provide safe, high-quality flight instruction to students seeking FAA Pilot Certificates.

535. AVS 261 – Helicopter: Intro to CFI

New Course

Recommend with description:

Introduction to flight from the left (instructor) seat and basic critique and analysis. Maneuvers from the Private and Commercial Practical Test Standards will be practiced. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-261, 262, 263 sequence is an alternative equivalent to AVS-265. Coreq: AVS-207 and AVS-260. Prereq: AVS-205 or AVS-214 or AVS-215.

And with outcomes:

1. Fly required maneuvers from the left (instructor) seat.
2. Conduct useful, constructive analysis and critique of both their instructor and their own flying.

536. AVS 262 – Helicopter: CFI Development

New Course

Recommend with description:

Focuses on providing effective instruction in maneuvers from the helicopter private and commercial syllabi to practical test standards. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-261, 262, 263 sequence is an alternative equivalent to AVS-265. Coreq: AVS-207. Prereq: AVS-261.

And with outcomes:

1. Fly assigned maneuvers to practical test standards while providing safe, effective instruction.
2. Provide appropriate, useful, constructive critique and analysis of the instructor's flying.

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537. AVS 263 – Helicopter: CFI Test Prep

New Course

Recommend with description:

Preparation for the FAA practical test for the Flight Instructor certificate. Increases proficiency in all applicable flight maneuvers including full-down autorotation. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. The AVS-261, 262, 263 sequence is an alternative equivalent to AVS-265. Coreq: AVS-207. Prereq: AVS-262.

And with outcomes:

1. Schedule and take the FAA CFI practical test.
2. Obtain a Certified Flight Instructor certificate.
3. Provide safe, high-quality flight instruction to students seeking FAA Pilot Certificates.