



# San Jacinto College 2015-2016 Catalog Addendum

Page #	Section	Previous Text	Changed to	Date completed
202	Course Descriptions	AIRP 1215 Private Flight This course is flight training to prepare the student for the completion of the Federal Aviation Administration private pilot certification process. Prerequisites: Reading level 7, Writing level 7, Math level 9. Federal Aviation Regulation (FAR) Part 141, Ground School Training and aeronautical department chair approval. (AIRP 1301, AIRP 1307, and AIRP 1311) (2:1-4)	AIRP 1215 Private Flight This course is flight training to prepare the student for the completion of the Federal Aviation Administration private pilot certification process. Prerequisites: Reading level 7, Writing level 7, Math level 9. Federal Aviation Regulation (FAR) Part 141, Ground School Training and aeronautical department chair approval. (AIRP 1301, AIRP 1307, and AIRP 1311) (2:1-4)	8/17/2015
202	Course Descriptions	AIRP 2236 Certified Flight Instructor-Airplane This course covers flight and ground instruction required to qualify for the Federal Aviation Administration Certified Flight Instructor - Airplane certificate. Prerequisites: Commercial Pilot Certificate with Instrument Rating and aeronautical department chair approval. (2:1-4)	AIRP 2236 Certified Flight Instructor-Airplane This course covers flight and ground instruction required to qualify for the Federal Aviation Administration Certified Flight Instructor - Airplane certificate. Prerequisites: Commercial Pilot Certificate with Instrument Rating, Reading level 7, Writing level 7, Math level 9 and aeronautical department chair approval. (2:1-4)	8/17/2015
202	Course Descriptions	AIRP 2239 Commercial Flight (Commercial Pilot) The flight instruction in this course is necessary to qualify for the Federal Aviation Administration Commercial Pilot Certificate. Instruction includes both dual and solo flight training to prepare the student to perform commercial pilot maneuvers. A total of 48 hours of instruction is provided, including 27 hours of dual flight, 11 hours of solo flight, 5 hours of flight simulator, and 5 hours of pre-flight and post-flight instruction and	AIRP 2239 Commercial Flight (Commercial Pilot) The flight instruction in this course is necessary to qualify for the Federal Aviation Administration Commercial Pilot Certificate. Instruction includes both dual and solo flight training to prepare the student to perform commercial pilot maneuvers. A total of 48 hours of instruction is provided, including 27 hours of dual flight, 11 hours of solo flight, 5 hours of flight simulator, and 5 hours of pre-flight and post-flight instruction and briefing. Prerequisite: Private Pilot	8/17/2015

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		briefing. Prerequisite: Private Pilot Certificate (2:1-4)	Certificate, Reading level 7, Writing level 7, Math level 9 (2:1-4)	
202	Course Descriptions	<p>AIRP 2242 Flight Instructor-Instrument Airplane</p> <p>This course assists with Flight and ground instruction required to qualify for the Federal Aviation Administration Certified Flight Instructor-Instrument Airplane certificate. Prerequisites: Commercial Pilot Certificate with Instrument Rating and aeronautical department chair approval. (2:1-4)</p>	<p>AIRP 2242 Flight Instructor-Instrument Airplane</p> <p>This course assists with Flight and ground instruction required to qualify for the Federal Aviation Administration Certified Flight Instructor-Instrument Airplane certificate. Prerequisites: Commercial Pilot Certificate with Instrument Rating, Reading level 7, Writing level 7, Math level 9 and aeronautical department chair approval. (2:1-4)</p>	8/17/2015
202	Course Descriptions	<p>AIRP 2243 Flight Instructor-Multiengine Airplane</p> <p>The Flight instruction in this course is necessary to qualify for the Federal Aviation Administration Flight Instructor-Multiengine Airplane Rating. Includes combined ground and flight instruction and analysis of flight maneuvers. Prerequisites: Commercial Pilot Certificate with Instrument and Multiengine Rating and aeronautical department approval. (2:1-4)</p>	<p>AIRP 2243 Flight Instructor-Multiengine Airplane</p> <p>The Flight instruction in this course is necessary to qualify for the Federal Aviation Administration Flight Instructor-Multiengine Airplane Rating. Includes combined ground and flight instruction and analysis of flight maneuvers. Prerequisites: Reading level 7, Writing level 7, Math level 9, Commercial Pilot Certificate with Instrument and Multiengine Rating and aeronautical department approval. (2:1-4)</p>	8/17/2015
203	Course Descriptions	<p>AIRP 2250 Instrument Flight (Instrument Pilot)</p> <p>This course prepares students for completion of the Federal Aviation Administration Instrument Pilot Rating with mastery of all instrument flight procedures. Prerequisites: AIRP 1215 or a valid Private Pilot Certificate and aeronautical department chair approval. Prerequisite.</p>	<p>AIRP 2250 Instrument Flight (Instrument Pilot)</p> <p>This course prepares students for completion of the Federal Aviation Administration Instrument Pilot Rating with mastery of all instrument flight procedures. Prerequisites: AIRP 1215 or a valid Private Pilot Certificate and aeronautical department chair approval. Prerequisite. Reading level 7, Writing level 7, Math level 9.</p>	8/17/2015

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		Reading level 6. Prerequisite or co-requisite: FAR Part 141 ground school training (AIRP 1451) (2:1-4)	Prerequisite or co-requisite: FAR Part 141 ground school training (AIRP 1451) (2:1-4)	
203	Course Descriptions	AIRP 2251 Multi-Engine Flight This course is preparation for the multiengine class rating which will be added to a current pilot certificate. It includes explanation and demonstration of all required Federal Aviation Administration normal and emergency operations and procedures. Prerequisites: Private Pilot Certificate with Instrument Rating, Reading level 7, Writing level 7, Math level 9 and aeronautical department chair approval. (2:1-4)	AIRP 2251 Multi-Engine Flight This course is preparation for the multiengine class rating which will be added to a current pilot certificate. It includes explanation and demonstration of all required Federal Aviation Administration normal and emergency operations and procedures. Prerequisites: Private Pilot Certificate with Instrument Rating, Reading level 7, Writing level 7, Math level 9 and aeronautical department chair approval. (2:1-4)	8/17/2015
279	Course Descriptions	PSTR 2301 Chocolates and Confections This course covers production and decoration of traditional truffles, marzipan, molded and hand-dipped chocolates, caramels, nougats, and pate de fruit. The student will prepare tempered and molded chocolates; and prepare a variety of filled and dipped chocolates. Prerequisites: CHEF 1205, PSTR 1301, PSTR 1306, PSTR 1342; Co-requisite: PSTR 2307 (3:2-4)	PSTR 2301 Chocolates and Confections This course covers production and decoration of traditional truffles, marzipan, molded and hand-dipped chocolates, caramels, nougats, and pate de fruit. Prerequisites: CHEF 1205, PSTR 1301, PSTR 1306, PSTR 1342; Co-requisite: PSTR 2307 (3:2-4)	8/17/2015
279	Course Descriptions	PSTR 2331 Advanced Pastry Shop This is a study of classical desserts, French and international pastries, hot and cold desserts, ice creams and ices, chocolate work, and decorations. Emphasis on advanced techniques. Prerequisite or co-requisite:	PSTR 2331 Advanced Pastry Shop This is a study of classical desserts, French and international pastries, hot and cold desserts, ice creams and ices, chocolate work, and decorations. Emphasis on advanced techniques. Prerequisite or co-requisite:	8/17/2015

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		PSTR 1301, Co-requisite: CHEF 1205 (3:1-7)	PSTR 1301, Co-requisite: CHEF 1205 (3:2-4)	
275	Course Descriptions	PHED 1338 Concepts of Physical Fitness This course is designed to familiarize students with knowledge, understanding and values of health related fitness and its influence on the quality of life emphasizing the development and implementation of fitness programs. Prerequisite: Reading level 7 (3:3-0)	PHED 1338 Concepts of Physical Fitness This course is designed to familiarize students with knowledge, understanding and values of health related fitness and its influence on the quality of life emphasizing the development and implementation of fitness programs. This course will not satisfy one hour of physical education activity. Prerequisite: Reading level 7 (3:3-0)	8/17/2015
275	Course Descriptions	PHED 1346 Drug Use & Abuse Study of the use, misuse and abuse of drugs and other harmful substances in today's society. Physiological, sociological, pharmacological and psychological factors will be emphasized. (3:3-0)	PHED 1346 Drug Use & Abuse Study of the use, misuse and abuse of drugs and other harmful substances in today's society. Physiological, sociological, pharmacological and psychological factors will be emphasized. This course will not satisfy one hour of physical education activity. (3:3-0)	8/17/2015
276	Course Descriptions	PHED 2156 Taping and Bandaging This course provides the fundamental therapeutic and preventative taping and bandaging techniques used in the prevention and care of athletic-related injuries to allow for recovery and for athletic participation. Co-requisite: PHED 2356 (1:0-1)	PHED 2156 Taping and Bandaging This course provides the fundamental therapeutic and preventative taping and bandaging techniques used in the prevention and care of athletic-related injuries to allow for recovery and for athletic participation. This course will not satisfy one hour of physical education activity. Co-requisite: PHED 2356 (1:0-1)	8/17/2016
276	Course Descriptions	PHED 2356 Care and Prevention of Athletic Injuries This course covers prevention and care of athletic injuries with emphasis on qualities of a good athletic trainer,	PHED 2356 Care and Prevention of Athletic Injuries This course covers prevention and care of athletic injuries with emphasis on qualities of a good athletic trainer, avoiding accidents and injuries,	8/17/2015

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		avoiding accidents and injuries, recognizing signs and symptoms of specific sports injuries and conditions, immediate and long-term care of injuries, and administration procedures in athletic training. (3:3-0)	recognizing signs and symptoms of specific sports injuries and conditions, immediate and long-term care of injuries, and administration procedures in athletic training. This course will not satisfy one hour of physical education activity. (3:3-0)	
29	General Information	PTHA 2413	\$ 4	Removed lab fee (course deactivated) 8/17/2015
120	Technical Programs	Approved Electives CPMT 2302 EECT 1307 EECT 2337 IMED 1341 IMED 1345 ITCC 1308 ITCC 1404 ITNW 1345 ITNW 1392 ITNW 2352 ITSC 1319 ITSC 1391 ITSC 2321 ITSE 1307 ITSE 1345 ITSE 1391 ITSW 2334 ITSW 2337 Science Elective for General Education Core BIOL 1308/1108 BIOL 1309/1109 BIOL 1311/1111 BIOL 1313/1113 CHEM 1305/1105 CHEM 1311/1111 GEOL 1303/1103 **Students must be Texas Success Initiative (TSI) complete in order to graduate: Math level 9.		Removed approved electives and science electives for General Education Core 8/17/2015
154	Technical programs	SPCH 1321 Business Computer Applications		SPCH 1321 Business and Professional Speech 3 BCIS 1305 Business Computer Applications 3 Subtotal 18 8/17/2015
206-209	Course Descriptions	AUMT 1213 Theory of Automotive Suspension and		AUMT 1213 Theory of Automotive Suspension and Steering Systems 8/18/2015

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## Steering Systems

This course is a study of automotive suspension and steering systems including the theory of wheel and tire construction and alignment angles and procedures.

Prerequisites: AUMT 2421, Reading level 7, Writing level 6, Math level 6 (2:2-0)  
AUMT 1241 Theory of Automotive Climate Control Systems

This course is the study of the theory of automotive climate control systems. Emphasis on the basic refrigeration cycle and system malfunctions. Includes manual and electronic climate control systems. Prerequisites: AUMT 2421, Reading level 7, Writing level 6, Math level 6 (2:2-0)

AUMT 1253 Theory of Automotive Electrical Systems

This is a course in automotive electrical systems including operational theory, testing and diagnosis of batteries, charging and starting systems, and electrical accessories. Includes use of electrical schematic diagrams and service. Prerequisites: Reading level 7, Writing level 6, Math level 6 (2:2-0)

AUMT 1257 Theory of Automotive Brake Systems

This course is the study of the theory and principles related to the design, operation, and servicing of automotive braking systems. Includes disc and drum-type brakes, hydraulic systems, power assist components,

This course is a study of automotive suspension and steering systems including the theory of wheel and tire construction and alignment angles and procedures.

Prerequisites: AUMT 2421, Reading level 7, Writing level 7, Math level 9 (2:2-0)

AUMT 1241 Theory of Automotive Climate Control Systems

This course is the study of the theory of automotive climate control systems. Emphasis on the basic refrigeration cycle and system malfunctions. Includes manual and electronic climate control systems. Prerequisites: AUMT 2421, Reading level 7, Writing level 7, Math level 9 (2:2-0)

AUMT 1253 Theory of Automotive Electrical Systems

This is a course in automotive electrical systems including operational theory, testing and diagnosis of batteries, charging and starting systems, and electrical accessories. Includes use of electrical schematic diagrams and service.

Prerequisites: Reading level 7, Writing level 7, Math level 9 (2:2-0)

AUMT 1257 Theory of Automotive Brake Systems

This course is the study of the theory and principles related to the design, operation, and servicing of automotive braking systems. Includes disc and drum-type brakes, hydraulic systems, power assist components, anti-lock brake systems, and diagnosis and reconditioning procedures.

Prerequisites: AUMT 2421, Reading level 7, Writing level 7, Math level 9 (2:2-0)

AUMT 1271 Manufacturers

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anti-lock brake systems, and diagnosis and reconditioning procedures. Prerequisites: AUMT 2421, Reading level 7, Writing level 6, Math level 6 (2:2-0)

AUMT 1271 Manufacturers Maintenance and Pre-Delivery  
This course provides an overview of manufacturers specific automotive quick services and new/used vehicle preparation. Topics include vehicle inspections, preparing estimates, changing fluids and filters, proper hazardous waste disposal, minor electrical repairs and road-testing techniques using manufacturers information systems, forms, and maintenance/repair procedures. Students will learn how to inspect and evaluate vehicle systems to determine if advanced levels of repairs are needed. They also learn how to identify and operate necessary equipment and tools. (2:1-3)

AUMT 1272 Auto Maintenance and Repair

This course provides an overview of manufacturers specific automotive quick services and new/used vehicle preparation. Topics include vehicle inspections, preparing estimates, changing fluids and filters, proper hazardous waste disposal, minor electrical repairs and road-testing techniques using manufacturers information systems, forms, and maintenance/repair procedures. Students will

Maintenance and Pre-Delivery

This course provides an overview of automotive industry specific automotive quick services and new/used vehicle preparation. Topics include vehicle inspections, preparing estimates, changing fluids and filters, proper hazardous waste disposal, minor electrical repairs and road-testing techniques using manufacturers information systems, forms, and maintenance/repair procedures. Students will learn how to inspect and evaluate vehicle systems to determine if advanced levels of repairs are needed. They also learn how to identify and operate necessary equipment and tools. May be taught manufacturer specific. Reading level 7, Writing level 7, Math level 9 (2:1-3)

AUMT 1272 Automotive Maintenance and Repair

This course provides an overview of manufacturers specific automotive quick services and new/used vehicle preparation. Topics include vehicle inspections, preparing estimates, changing fluids and filters, proper hazardous waste disposal, minor electrical repairs and road-testing techniques using manufacturers information systems, forms, and maintenance/repair procedures. Students will learn how to inspect and evaluate vehicle systems to determine if advanced levels of repairs are needed. They also learn how to identify and operate necessary equipment and tools. Prerequisites: Reading level 7, Writing level 7, Math level 9 (2:1-3)

AUMT 1307 Automotive Electrical Systems Lab

This course is an overview of automotive electrical systems

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learn how to inspect and evaluate vehicle systems to determine if advanced levels of repairs are needed. They also learn how to identify and operate necessary equipment and tools.

Prerequisites: Reading level 7, Writing level 6, Math level 6 (2:1-3)

AUMT 1307 Automotive Electrical Systems Lab

This course is an overview of automotive electrical systems including topics in operational theory, testing, diagnosis, and repair of, charging and starting systems, and electrical accessories. Emphasis on electrical principles, schematic diagrams, and service manuals. May be taught manufacturer specific. Co-requisite: AUMT 1253.

Prerequisites: Reading level 7, Writing level 6, Math level 6 (3:1-5)

AUMT 1310 Automotive Brake Systems Lab

This course is the study of the operation and repair of drum/disc type brake systems. Topics include brake theory, diagnosis, and repair of power, manual, anti-lock brake systems, and parking brakes. May be taught with manufacturer specific instructions.

Prerequisites: AUMT 2421, Reading level 7, Writing level 6, Math level 6. Co-requisite: AUMT 1257 (3:1-5)

AUMT 1316 Automotive Suspension and Steering

This course is the study of the diagnosis and repair of automotive suspension and

including topics in operational theory, testing, diagnosis, and repair of, charging and starting systems, and electrical accessories. Emphasis on electrical principles, schematic diagrams, and service manuals.

May be taught manufacturer specific. Co-requisite: AUMT 1253. Prerequisites: Reading level 7, Writing level 6, Math level 6 (3:1-5)

AUMT 1310 Automotive Brake Systems Lab

This course is the study of the operation and repair of drum/disc type brake systems. Topics include brake theory, diagnosis, and repair of power, manual, anti-lock brake systems, and parking brakes. May be taught with manufacturer specific instructions. Prerequisites: AUMT 2421, Reading level 7, Writing level 6, Math level 6. Co-requisite: AUMT 1257 (3:1-5)

AUMT 1316 Automotive Suspension and Steering

This course is the study of the diagnosis and repair of automotive suspension and steering systems including electronically controlled systems. Includes component repair, alignment procedures, and tire and wheel service. May be taught manufacturer specific.

Prerequisites: AUMT 2421, Reading level 7, Writing level 7, Math level 9 (3:2-4)

AUMT 1319 Automotive Engine Repair

This course is the study of the fundamentals of engine operation, diagnosis and repair. Emphasis on identification, inspection, measurements, dis-assembly, repair, and reassembly of the engine. May be taught





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steering systems including electronically controlled systems. Includes component repair, alignment procedures, and tire and wheel service. May be taught manufacturer specific.

Prerequisites: AUMT 2421, Reading level 7, Writing level 6, Math level 6. (3:2-4)

AUMT 1319 Automotive Engine Repair

This course is the study of the fundamentals of engine operation, diagnosis and repair. Emphasis on identification, inspection, measurements, disassembly, repair, and reassembly of the engine. May be taught manufacturer specific.

Prerequisites: Reading level 7, Writing level 6, Math level 6. (3:2-4)

AUMT 1345 Automotive Climate Control Systems

This course is a study of the diagnosis and repair of manual/electronic climate control systems; includes the refrigeration cycle and EPA guidelines for refrigerant handling. May be taught manufacturer specific.

Prerequisites: AUMT 2421, Reading level 7, Writing level 6, Math level 6. (3:2-4)

AUMT 1407 Automotive Electrical Systems

This course is an overview of automotive electrical systems including topics in operational theory, testing, diagnosis, and repair of, charging and starting systems, and electrical accessories. Emphasis on electrical principles, schematic diagrams, and

manufacturer specific.

Prerequisites: Reading level 7, Writing level 7, Math level 9 (3:2-4)

AUMT 1345 Automotive Climate Control Systems

This course is a study of the diagnosis and repair of manual/electronic climate control systems; includes the refrigeration cycle and EPA guidelines for refrigerant handling. May be taught manufacturer specific.

Prerequisites: AUMT 2421, Reading level 7, Writing level 7, Math level 9 (3:2-4)

AUMT 1407 Automotive Electrical Systems

This course is an overview of automotive electrical systems including topics in operational theory, testing, diagnosis, and repair of, charging and starting systems, and electrical accessories. Emphasis on

electrical principles, schematic diagrams, and service manuals. May be taught manufacturer specific. Prerequisites: Reading level 7, Writing level 7, Math level 9 (4:2-6)

AUMT 1410 Automotive Brake Systems

This course is the study of the operation and repair of drum/disc type brake systems.

Topics include brake theory, diagnosis, and repair of power, manual, anti-lock brake systems, and parking brakes. May be taught with manufacturer specific instructions. Prerequisites: AUMT 2421, Reading level 7, Writing level 7, Math level 9 (4:2-6)

AUMT 1416 Automotive Suspension and Steering

This course is the study of the diagnosis and repair of

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service manuals. May be taught manufacturer specific.  
Prerequisites: Reading level 7, Writing level 6, Math level 6 (4:2-6)

## AUMT 1410 Automotive Brake Systems

This course is the study of the operation and repair of drum/disc type brake systems. Topics include brake theory, diagnosis, and repair of power, manual, anti-lock brake systems, and parking brakes. May be taught with manufacturer specific instructions.

Prerequisites: AUMT 2421, Reading level 7, Writing level 6, Math level 6. (4:2-6)

## AUMT 1416 Automotive Suspension and Steering

This course is the study of the diagnosis and repair of automotive suspension and steering systems including electronically controlled systems. Includes component repair, alignment procedures, and tire and wheel service. May be taught manufacturer specific.

Prerequisites: AUMT 2421, Reading level 7, Writing level 6, Math level 6. (4:2-6)

## AUMT 1419 Automotive Engine Repair

This course is the study of the fundamentals of engine operation, diagnosis and repair. Emphasis on identification, inspection, measurements, disassembly, repair, and reassembly of the engine. May be taught manufacturer specific.

Prerequisites: Reading level 7, Writing level 6, Math level 6. (4:2-6)

automotive suspension and steering systems including electronically controlled systems. Includes component repair, alignment procedures, and tire and wheel service. May be taught manufacturer specific.

Prerequisites: AUMT 2421, Reading level 7, Writing level 7, Math level 9 (4:2-6)

## AUMT 1419 Automotive Engine Repair

This course is the study of the fundamentals of engine operation, diagnosis and repair. Emphasis on identification, inspection, measurements, disassembly, repair, and reassembly of the engine. May be taught manufacturer specific.

Prerequisites: Reading level 7, Writing level 7, Math level 9 (4:2-6)

## AUMT 1445 Automotive Climate Control Systems

This course is a study of the diagnosis and repair of manual/electronic climate control systems; includes the refrigeration cycle and EPA guidelines for refrigerant handling. May be taught manufacturer specific.

Prerequisites: AUMT 2421, Reading level 7, Writing level 7, Math level 9 (4:2-6)

## AUMT 1471 Manufacturers Maintenance and Pre-Delivery

This course provides an overview of manufacturers specific automotive quick services and new/used vehicle preparation. Topics include vehicle inspections, preparing estimates, changing fluids and filters, proper hazardous waste disposal, minor electrical repairs and road-testing techniques using manufacturers information systems, forms, and

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## AUMT 1445 Automotive Climate Control Systems

This course is a study of the diagnosis and repair of manual/electronic climate control systems; includes the refrigeration cycle and EPA guidelines for refrigerant handling. May be taught manufacturer specific.

Prerequisites: AUMT 2421, Reading level 7, Writing level 6, Math level 6. (4:2-6)

## AUMT 1471 Manufacturers Maintenance and Pre-Delivery

This course provides an overview of manufacturers specific automotive quick services and new/used vehicle preparation. Topics include vehicle inspections, preparing estimates, changing fluids and filters, proper hazardous waste disposal, minor electrical repairs and road-testing techniques using manufacturers information systems, forms, and maintenance/repair procedures. Students will learn how to inspect and evaluate vehicle systems to determine if advanced levels of repairs are needed. They also learn how to identify and operate necessary equipment and tools.

Prerequisites: Reading level 7, Writing level 6, Math level 6.(4:2-6)

## AUMT 2188 Internship - Automotive Technology

This course is a work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by

maintenance/repair procedures. Students will learn how to inspect and evaluate vehicle systems to determine if advanced levels of repairs are needed. They also learn how to identify and operate necessary equipment and tools.

Prerequisites: Reading level 7, Writing level 7, Math level 9 (4:2-6)

## AUMT 2188 Internship - Automotive Technology

This course is a work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Prerequisites: Reading level 7, Writing level 7, Math level 9 and department chair/program coordinator approval. (1:0-6)

## AUMT 2205 Theory of Automotive Engine Repair

This course is the study of the fundamentals of engine operation and diagnosis including lubrication and cooling systems. Emphasis on identification of components, measurements, inspections, and repair methods.

Prerequisites: AUMT 2231and 2317, Reading level 7, Writing level 7, Math level 9 (2:2-0)

## AUMT 2209 Theory of Automotive Drive Train and Axles

This course is a study of automotive clutches, clutch operation devices, manual transmissions/transaxles, and differentials. Emphasis on theory of transmission/transaxle and drive line components.

Prerequisites: AUMT 2421, Reading level 7, Writing level 7, Math level 9 (2:2-0)

## AUMT 2215 Theory of Engine Performance Analysis I

This course is a study of the



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the college and the employer. Prerequisites: Reading level 7, Writing level 6, Math level 6. Department Chair/Program Coordinator Approval. (1:0-6)  
 AUMT 2205 Theory of Automotive Engine Repair  
 This course is the study of the fundamentals of engine operation and diagnosis including lubrication and cooling systems. Emphasis on identification of components, measurements, inspections, and repair methods. Prerequisites: AUMT 2231 and 2317, Reading level 7, Writing level 6, Math level 6 (2:2-0)  
 AUMT 2209 Theory of Automotive Drive Train and Axles  
 This course is a study of automotive clutches, clutch operation devices, manual transmissions/transaxles, and differentials. Emphasis on theory of transmission/transaxle and drive line components. Prerequisites: AUMT 2421, Reading level 7, Writing level 6, Math level 6 (2:2-0)  
 AUMT 2215 Theory of Engine Performance Analysis I  
 This course is a study of the operation and diagnosis of basic engine dynamics including the study of the ignition system, fuel delivery systems, and the use of engine performance diagnostic equipment. Prerequisites: AUMT 2421, Reading level 7, Writing level 6, Math level 6 (2:2-0)  
 AUMT 2223 Theory of Automotive Automatic Transmission and Transaxle

operation and diagnosis of basic engine dynamics including the study of the ignition system, fuel delivery systems, and the use of engine performance diagnostic equipment. Prerequisites: AUMT 2421, Reading level 7, Writing level 7, Math level 9 (2:2-0)  
 AUMT 2223 Theory of Automotive Automatic Transmission and Transaxle  
 This course is the study of the theory of operation, hydraulic principles, and electronic circuits of modern automatic transmissions and transaxles. Discussion of diagnosing and repair techniques. Prerequisites: AUMT 2209 and 2313, Reading level 7, Writing level 7, Math level 9 (2:2-0)  
 AUMT 2231 Theory of Automotive Engine Performance Analysis II  
 This course is a study of emission systems, computerized engine performance, and advanced ignition and fuel systems, including advanced engine performance diagnostic equipment. Prerequisites: AUMT 2215, Reading level 7, Writing level 7, Math level 9 (2:2-0)  
 AUMT 2288 Internship - Automotive Technology  
 This course is a work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Prerequisites: Reading level 7, Writing level 7, Math level 9 and department chair/program coordinator approval. (2:0-12)  
 AUMT 2313 Manual Drivetrain and Axles  
 This is a study of automotive clutches, clutch operation devices, manual

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This course is the study of the theory of operation, hydraulic principles, and electronic circuits of modern automatic transmissions and transaxles. Discussion of diagnosing and repair techniques. Prerequisites: AUMT 2209 and 2313, Reading level 7, Writing level 6, Math level 6. (2:2-0) AUMT 2288 Internship - Automotive Technology

This course is a work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Prerequisites: Reading level 7, Writing level 6, Math level 6, Department Chair/Program Coordinator Approval (2:0-12) AUMT 2313 Manual Drivetrain and Axles

This is a study of automotive clutches, clutch operation devices, manual transmissions/transaxles, and differentials with emphasis on diagnosis and repair. May be taught with manufacturer specific instructions. Prerequisites: Reading level 7, Writing level 6, Math level 6. (3:2-4) AUMT 2317 Automotive Engine Performance Analysis I Lab

This course is the study of the theory, operation, diagnosis of drivability concerns, and repair of ignition, and fuel delivery systems. Includes use of current engine performance diagnostic equipment. May be taught with manufacturer

transmissions/transaxles, and differentials with emphasis on diagnosis and repair. May be taught with manufacturer specific instructions. Prerequisites: Reading level 7, Writing level 7, Math level 9 (3:2-4) AUMT 2317 Automotive Engine Performance Analysis I Lab

This course is the study of the theory, operation, diagnosis of driveability concerns, and repair of ignition, and fuel delivery systems. Includes use of current engine performance diagnostic equipment. May be taught with manufacturer specific instructions. Prerequisites: AUMT 2421, Reading level 7, Writing level 7, Math level 9. Co-requisite: AUMT 2215 (3:1-5) AUMT 2321 Automotive Electrical Diagnosis and Repair

This is a course in repair of automotive electrical subsystems, lighting, instrumentation, and accessories. Emphasis on accurate diagnosis and proper repair methods using various troubleshooting skills and techniques. This course may be taught with manufacturer-specific focus. Prerequisites: Reading level 7, Writing level 7, Math level 9 (3:2-4) AUMT 2325 Automotive Automatic Transmission and Transaxles Lab

This course is a study of the operation, hydraulic circuits and electronic controls of modern automatic transmissions/transaxles. Includes diagnosis, disassembly, and assembly procedures with emphasis on the use of special tools and repair techniques. May be taught manufacturer specific. Prerequisites: AUMT 2209 and 2313, Reading level 7, Writing

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specific instructions.  
Prerequisites: AUMT 2421, Reading level 7, Writing level 6, Math level 6. Co-requisite: AUMT 2215 (3:1-5)  
AUMT 2321 Automotive Electrical Diagnosis and Repair

This is a course in repair of automotive electrical subsystems, lighting, instrumentation, and accessories. Emphasis on accurate diagnosis and proper repair methods using various troubleshooting skills and techniques. This course may be taught with manufacturer-specific focus.  
Prerequisites: Reading level 7, Writing level 6, Math level 6 (3:2-4)

AUMT 2325 Automotive Automatic Transmission and Transaxles Lab

This course is a study of the operation, hydraulic circuits and electronic controls of modern automatic transmissions/transaxles. Includes diagnosis, disassembly, and assembly procedures with emphasis on the use of special tools and repair techniques. May be taught manufacturer specific. Prerequisites: AUMT 2209 and 2313, Reading level 7, Writing level 6, Math level 6. Co-requisite: AUMT 2223 (3:1-5)

AUMT 2334 Automotive Engine Performance Analysis II Lab  
This course is the study of the diagnosis and repair of emission systems, computerized engine performance systems, and advanced ignition and fuel

level 7, Math level 9. Co-requisite: AUMT 2223 (3:1-5)

AUMT 2334 Automotive Engine Performance Analysis II Lab

This course is the study of the diagnosis and repair of emission systems, computerized engine performance systems, and advanced ignition and fuel systems. Includes use of advanced engine performance diagnostic equipment. May be taught manufacturer specific.  
Prerequisites: AUMT 2215 and 2317, Reading level 7, Writing level 7, Math level 9. Co-requisite: AUMT 2231 (3:1-5)

AUMT 2388 Internship - Automotive Technology

This course is a work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Prerequisites: Reading level 7, Writing level 7, Math level 9 and department chair/program coordinator approval. (3:0-15)

AUMT 2413 Manual Drivetrain and Axles

This is a study of automotive clutches, clutch operation devices, manual transmissions/transaxles, and differentials with emphasis on diagnosis and repair. May be taught with manufacturer specific instructions. Prerequisites: Reading level 7, Writing level 7, Math level 9 (4:2-6)

AUMT 2417 Automotive Engine Performance Analysis I

This course is the study of the theory, operation, diagnosis of driveability concerns, and repair of ignition, and fuel delivery systems. Includes use of current engine performance diagnostic

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systems. Includes use of advanced engine performance diagnostic equipment. May be taught manufacturer specific. Prerequisites: AUMT 2215 and 2317, Reading level 7, Writing level 6, Math level 6. Co-requisite: AUMT 2231 (3:1-5)

AUMT 2388 Internship - Automotive Technology  
This course is a work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the College and the employer. Prerequisites: Reading level 7, Writing level 6, Math level 6; Department Chair/Program Coordinator Approval. (3:0-15)

AUMT 2413 Manual Drivetrain and Axles  
This is a study of automotive clutches, clutch operation devices, manual transmissions/transaxles, and differentials with emphasis on diagnosis and repair. May be taught with manufacturer specific instructions. Prerequisites: Reading level 7, Writing level 6, Math level 6. (4:2-6)

AUMT 2417 Automotive Engine Performance Analysis I  
This course is the study of the theory, operation, diagnosis of drivability concerns, and repair of ignition and fuel delivery systems. Includes use of current engine performance diagnostic equipment. May be taught with manufacturer specific instructions.

equipment. May be taught with manufacturer specific instructions. Prerequisites: AUMT 2421, Reading level 7, Writing level 7, Math level 9 (4:2-6)

AUMT 2421 Automotive Electrical Diagnosis and Repair  
This is a course in repair of automotive electrical subsystems, lighting, instrumentation, and accessories. Emphasis on accurate diagnosis and proper repair methods using various troubleshooting skills and techniques. This course may be taught with manufacturer-specific focus. Reading level 7, Writing level 7, Math level 9 (4:2-6)

AUMT 2425 Automotive Automatic Transmission and Transaxles  
This course is a study of the operation, hydraulic circuits and electronic controls of modern automatic transmissions/transaxles. Includes diagnosis, disassembly, and assembly procedures with emphasis on the use of special tools and repair techniques. May be taught manufacturer specific. Prerequisites: Reading level 7, Writing level 7, Math level 9 (4:2-6)

AUMT 2434 Automotive Engine Performance Analysis II  
This course is the study of the diagnosis and repair of emission systems, computerized engine performance systems, and advanced ignition and fuel systems. Includes use of advanced engine performance diagnostic equipment. May be taught manufacturer specific. Prerequisites: Reading level 7, Writing level 7, Math level 9 (4:2-6)

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Prerequisites: AUMT 2421,  
Reading level 7, Writing level  
6, Math level 6. (4:2-6)

AUMT 2421 Automotive Electrical  
Diagnosis and Repair

This is a course in repair of  
automotive electrical  
subsystems, lighting,  
instrumentation, and  
accessories. Emphasis on  
accurate diagnosis and  
proper repair methods using  
various troubleshooting skills  
and techniques. This course  
may be taught with  
manufacturer-specific focus.  
(4:2-6)

AUMT 2425 Automotive  
Automatic Transmission and  
Transaxles

This course is a study of the  
operation, hydraulic circuits  
and electronic controls of  
modern automatic  
transmissions/transaxles.

Includes diagnosis,  
disassembly, and assembly  
procedures with emphasis  
on the use of special tools  
and repair techniques. May  
be taught manufacturer  
specific. Prerequisites:  
Reading level 7, Writing level  
6, Math level 6. (4:2-6)

AUMT 2434 Automotive Engine  
Performance Analysis II

This course is the study of  
the diagnosis and repair of  
emission systems,  
computerized engine  
performance systems, and  
advanced ignition and fuel  
systems. Includes use of  
advanced engine  
performance diagnostic  
equipment. May be taught  
manufacturer specific.

Prerequisites: Reading level  
7, Writing level 6, Math level

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6. (4:2-6)				
63	General Information	NAUT 1371	NAUT 1372	8/20/2015
206-209	Course Descriptions	AVIM courses	Moved AVIM courses after AUMT	8/20/2015
301	Index	section A	Updated section A	8/20/2015
27	General Information	Incidental Fees; Changed title name of Maritime Technology	New Title name Maritime Transportation	8/27/2015
161	Technical Programs	Under Maritime Career Interest (6MAR-CI), changed title name of NAUT 1272 and NAUT 1274	Correct tiles both Say Marine Cargo....	8/27/2015
196	Course Descriptions	Index to Subject: Changed title Name of Maritime Technology	New title name: Maritime Transportation	8/27/2015
198	Course Descriptions	Course Rubric changed name of Program NAUT Maritime Technology	New title of Rubric to read NAUT Maritime Transportation	8/27/2015
268	Course Descriptions	Changed Course Title to NAUT 1274	Changed title from Maritime to Marine	8/27/2015
270	Course Descriptions	In NAUT 2472, description change from Maritime Technology	New title Maritime Transportation in body copy of NAUT 2472	8/27/2015
114	Technical Section	Corrected spelling in ITSY 2345	Corrected spelling of Countermeasures	8/27/2015
161	Technical Section	Under Maritime Transportation NAUT 1274 Maritime Cargo Operations II	Name changed to NAUT 1274 Marine Cargo Operations II	9/9/2015
57	General Information	revise the table information on page 57	The row, MUSIC THEORY has been deleted	9/16/2015
60	General Information	Removed 1-5	Replaced with text: Internal challenge exams are developed by the technical programs, approved by SJCD curriculum teams and administered by the campus testing centers or academic departments. A student must petition the College to receive credit by departmental examination. Internal (departmental) challenge exams can only be attempted once. The provost must approve the petition and designate a faculty member to administer the exam. Before taking the exam the student must pay the business office a nonrefundable \$20 fee . The provost evaluates the completed exam and authorizes the dean of	9/16/2015

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enrollment services to record credit as appropriate. The credit will count for residency. The credit hours will count in hours used for financial aid decisions. Credit by exam does not apply to academic courses.

62	General Information	Removed 1-5	Replaced with text: Internal challenge exams are developed by the technical programs, approved by SJCD curriculum teams and administered by the campus testing centers or academic departments. A student must petition the College to receive credit by departmental examination. Internal (departmental) challenge exams can only be attempted once. The provost must approve the petition and designate a faculty member to administer the exam. Before taking the exam the student must pay the business office a nonrefundable \$20 fee . The provost evaluates the completed exam and authorizes the dean of enrollment services to record credit as appropriate. The credit will count for residency. The credit hours will count in hours used for financial aid decisions. Credit by exam does not apply to academic courses.	9/16/2015
237	Course Descriptions	ENGR 2305 Electrical Circuits I Circuits I introduces the principles of electrical circuits and systems, including basic circuit elements (resistance, inductance, mutual inductance, capacitance, independent and dependent controlled voltage, and current sources); the	ENGR 2305 Electrical Circuits I Circuits I introduces the principles of electrical circuits and systems, including basic circuit elements (resistance, inductance, mutual inductance, capacitance, independent and dependent controlled voltage, and current sources); the topology of electrical networks;	9/24/2015

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topology of electrical networks; Kirchhoff's laws; node and mesh analysis; DC circuit analysis; operational amplifiers; transient and sinusoidal steady-state analysis; AC circuit analysis; first- and second-order circuits; Bode plots; and use of computer simulation software to solve circuit problems. Prerequisites: PHYS 2325 and PHYS 2125; Co-requisites: MATH 2320 and ENGR 2105. (3:3-0)

Kirchhoff's laws; node and mesh analysis; DC circuit analysis; operational amplifiers; transient and sinusoidal steady-state analysis; AC circuit analysis; first- and second-order circuits; Bode plots; and use of computer simulation software to solve circuit problems. Prerequisites: PHYS 2326 and PHYS 2126; Co-requisites: MATH 2320 and ENGR 2105. (3:3-0)

275	Course Descriptions	This is effective 201610. Course last offered 2009.	Removed	9/24/2015
		<p>PLAB 1166 Practicum Phlebotomy</p> <p>This is a practical, general workplace training supported by an individual learning plan developed by the employer, the College and the student.</p> <p>Prerequisite: PLAB 1223. (1:0-8)</p>		

265	Course Descriptions	<p>MSSG 2311 Massage Therapy Fundamentals II</p> <p>This course is a continuation of Massage Therapy Fundamentals I, emphasizing specialized techniques and assessment of client needs to identify a specific plan of care. It completes the requirements for Massage Techniques for Licensure. Prerequisites or co-requisites: Courses taken in level sequence order or department chair approval, 96 80 contact hours (3:1-5)</p>	<p>MSSG 2311 Massage Therapy Fundamentals II</p> <p>This course is a continuation of Massage Therapy Fundamentals I, emphasizing specialized techniques and assessment of client needs to identify a specific plan of care. It completes the requirements for Massage Techniques for Licensure. Prerequisites or co-requisites: Courses taken in level sequence order or department chair approval, 96 80 contact hours (3:1-4)</p>	9/25
71	Educational Section	Added course in third	Or	10/6/2015

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		semester to for Associate of Science in Engineering Science Degree	COSC 1337 Fundamentals of Programming II	
60	General Information	Internal challenge exams are developed by the technical programs, approved by SJCD curriculum teams and administered by the campus testing centers or academic departments. A student must petition the College to receive credit by departmental examination. Internal (departmental) challenge exams can only be attempted once. The provost must approve the petition and designate a faculty member to administer the exam. Before taking the exam the student must pay the business office a nonrefundable \$20 fee . The provost evaluates the completed exam and authorizes the dean of enrollment services to record credit as appropriate. The credit will count for residency. The credit hours will count in hours used for financial aid decisions. Credit by exam does not apply to academic courses.	Changed Provost to Instructional Dean Internal challenge exams are developed by the technical programs, approved by SJCD curriculum teams and administered by the campus testing centers or academic departments. A student must petition the College to receive credit by departmental examination. Internal (departmental) challenge exams can only be attempted once. The instructional dean must approve the petition and designate a faculty member to administer the exam. Before taking the exam the student must pay the business office a nonrefundable \$20 fee . The instructional dean evaluates the completed exam and authorizes the dean of enrollment services to record credit as appropriate. The credit will count for residency. The credit hours will count in hours used for financial aid decisions. Credit by exam does not apply to academic courses.	10/30/2015
293	Course Descriptions	TECM 1301 icon of Academic	TECM 1301 changed to Technical	10/30/2015
61	General Information	ITSC 1309 is listed as an oversight on page 61	Removed from file	11/30/2015
222	Course Descriptions	COMM 2311 Media Writing This course offers students and introduction to the fundamentals of writing for the mass media. Includes	Changed to COMM 2311 Media Writing This course offers students an introduction to the fundamentals of writing for the	11/30/2015

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		instruction in professional methods and techniques for gathering, processing, and delivering content. Prerequisites: Reading level 7, Writing level 7 (3:3-0)	mass media. Includes instruction in professional methods and techniques for gathering, processing, and delivering content. Prerequisites: Reading level 7, Writing level 7 (3:3-0)	
293	Course Descriptions	RADR 2236 Special Patient Applications This course is the study of the advanced concepts of pediatrics, geriatrics, trauma, history documentation, and electrocardiogram (ECG). Includes phlebotomy and venipuncture. Prerequisites: RADR 1266, 1313, 2401, 1250 (2:2-1)	RADR 2236 Special Patient Applications This course is the study of the advanced concepts of pediatrics, geriatrics, trauma, history documentation, and electrocardiogram (ECG). Includes phlebotomy, venipuncture and concepts of pharmacology. Prerequisites: RADR 1266, 1313, 2401, 1250 (2:2-1)	11/30/2015
57	General Information	Edits to Table Physics B, Spanish Lang, and Spanish Lit	Edits Physics B changed from 3 to 4 Removed Spanish Lang and Spanish Lit	1/11/2016
60	General Information	Edit to Credit by Internal Exams	Removed sentence Credit by exam does not apply to academic courses.	1/11/2016
61	General Information	Edit to Table HITT and PHED	Edits HITT 1305 Medical Terminology I 3 PHED 1306 First Aid *Students must provided documentation for Red Cross CPR Certification and First Aid Certification prior to taking the exam.	1/11/2016
62	General Information	Edit to Table Arranged alpha corder	Edit Moved into alpha order	
63	General Information	Edit to Table Added to Firefighter Certification	Edit Added FIRS 1323, FIRS 1333, FIRS	1/11/2016

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			1407, FIRT 1315, FIRT 1345, FIRT 2112, FIRT 2356, FIRT 2357, and FIRT 2359. Added Medical Assisting MDCA 1354 Added Pharmacy Technician PHRA 2343 Added Physical Education PHED 1306 Added to Vocational Nursing VNSG 1205	
202-203	Course Descriptions	change the catalog prerequisite for the following courses:  AIRP 1215 “or Department Approval (Co-requisites AIRP 1301 AIRP 1307, and AIRP 1311)” Add “or Department Approval” to the prerequisites following courses: AIRP 1341 AIRP 2331 AIRP 1451 AIRP 2250  AIRP 1343 AIRP 2239 AIRP 2333 AIRP 2337  AIRP 2236 AIRP 2242 AIRP 2243 AIRP 2251  AIRP 2357 (also change the Prerequisite from AIRP 2433 to AIRP 2333)	Added to end of courses AIRP 1215 “or department approval (Co-requisites AIRP 1301 AIRP 1307, and AIRP 1311)” Add “or department approval” to the prerequisites following courses: AIRP 1341 AIRP 2331 AIRP 1451 AIRP 2250  AIRP 1343 AIRP 2239 AIRP 2333 AIRP 2337  AIRP 2236 AIRP 2242 AIRP 2243 AIRP 2251  AIRP 2357 (also change the Prerequisite from AIRP 2433 to AIRP 2333)	1/20/2016
210	Course Descriptions	change the catalog prerequisite for the following courses:  AVIM 1301	Added or department approval	1/20/2016
202-203	Course Descriptions	Made edits to those with aeronautical department chair	Changed to or department approval	1/26/2016
212-213	Course Descriptions	Changed Title from BIOL 2120 Microbiology for Non-Science Majors (lab)	Changed Title to BIOL 2120 Microbiology for Health Science Majors (lab)	

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		BIOL 2320 Microbiology for Non-Science Majors (lecture)	BIOL 2320 Microbiology for Health Science Majors (lecture)
269	Course Descriptions	Added description	MATH 0342 Foundations in Statistics This course is a study of the basic concepts necessary for success assess risk, quantitative reasoning in personal finance and civi towards any degree. Prerequisites: Reading level 7, Math level
188	Technical Section	Changed Title name of course in Second Term of Surgical Technology (3SURT) From: Changed Title from BIOL 2120 Microbiology for Non-Science Majors (lab)  BIOL 2320 Microbiology for Non-Science Majors (lecture)	Changed Title to BIOL 2120 Microbiology for Health Science Majors (lab)  BIOL 2320 Microbiology for Health Science Majors (lecture)
175	Technical Section	Associate Degree Nursing (RN) (3NUR-ADN) Changed Title name of course in Pre-requisite Term From: Changed Title from BIOL 2120 Microbiology for Non-Science Majors (lab)  BIOL 2320 Microbiology for Non-Science Majors (lecture)	Changed Title to BIOL 2120 Microbiology for Health Science Majors (lab)  BIOL 2320 Microbiology for Health Science Majors (lecture)
176	Technical Section	LVN/Paramedic to RN Transition Nursing (3NUR-LVTRN) and (3NUR-PMTRN) From: Changed Title from BIOL 2120 Microbiology for Non-Science Majors (lab)  BIOL 2320 Microbiology for Non-Science Majors (lecture)	Changed Title to BIOL 2120 Microbiology for Health Science Majors (lab)  BIOL 2320 Microbiology for Health Science Majors (lecture)
95	Technical Section	AUMT 2421 Automotive ElectiveDiagnosis and Repair	Changed to AUMT 2421 Automotive Electrical Diagnosis and Repair
62-65	General Information – Student Grades and	Missing Aeronautical Technology, Associate	Added Course, Course Name and Liscensure or Industry 3/25/2016

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	Records	Degree Nursing, Automotive, and Construction Management	Certification to the table	
57	General Information	Advance Placement Chart	Updated chart to have Span 1411, 1412, 2311, and 2312	3/6/2017

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