NEW COURSES

Course ID: **MUS 101L**
Course Title: Musicianship I
Units: 1
Lecture: None
Laboratory: 3 Hours
Prerequisite: None
Corequisite: MUS 101

Catalog Description: A general study of the components of musicianship, this course explores how musical sounds are represented on paper through the use of graphic symbols and the basic ways in which they relate to each other in music composition. This course further explores how the musician interprets these symbols.

Schedule Description: A study of how musicians interpret musical symbols in composition using musical, historical, and sociological backgrounds.

Course ID: **MUS 102L**
Course Title: Musicianship II
Units: 1
Lecture: None
Laboratory: 3 Hours
Prerequisite: MUS 101 and MUS 101L
Corequisite: MUS 102

Catalog and Schedule Descriptions: Continues to focus on the study of musicianship through its components. Explores dictation skills (the notation of aural impressions), the continued use of solfeggio syllables to discern pitches within a tonal framework, and keyboard fundamentals designed to elevate students' levels of musicianship.

Course ID: **MUS 201**
Course Title: Music Theory III: Basic Harmony
Units: 3
Lecture: 3 Hours
Laboratory: None
Prerequisite: MUS 102 and MUS 102L
Corequisite: MUS 201L

Catalog and Schedule Descriptions: A complete study of diatonic harmonies, including a review of triad formations and principles of voice-leading. Beginning study of seventh chords, secondary dominants, realization of figured bass lines, beginning formal analysis and intermediate ear-training (two-part dictation) and sight-singing of harmonic parts in chorales. Includes analysis of the chorales by J.S. Bach, sight-singing chorale parts, and taking two-part dictation of melodic and harmonic lines from such chorales.

Course ID: **MUS 201L**
Course Title: Musicianship III
Units: 1
Lecture: None
Laboratory: 3 Hours
Prerequisite: MUS 102 and MUS 102L
Corequisite: MUS 201

Catalog and Schedule Descriptions: Emphasis on further development of skills in sight singing melodies which contain all intervals, melodic dictation which contains modulation, harmonic identification of all diatonic seventh chords and harmonic dictation of chorale phrases which modulate, rhythmic dictation with quarter and eighth beat values and in compound meters.

Course ID: **MUS 202**
Course Title: Music Theory IV: Harmony
Units: 3
Lecture: 3 Hours
Laboratory: None
Prerequisite: MUS 201 and MUS 201L
Corequisite: MUS 202L

Catalog and Schedule Descriptions: A conclusive study of diatonic harmonies, including further work with secondary dominant chord structures and figured bass line realizations. An extensive study of ninth chords (complete, incomplete, and dominant ninth), Neapolitan and augmented sixth chords as well as a study of irregular resolution will be undertaken. Conclusive study of Bach Chorales and other brief forms will be undertaken.

Course ID: **MUS 202L**
Course Title: Musicianship IV
Units: 1
Lecture: None
Laboratory: 3 Hours
Prerequisite: MUS 201 and MUS 201L
Corequisite: MUS 202

Catalog and Schedule Descriptions:
Emphasis on further development of skills in sight singing modal melodies and melodies containing larger leaps and non-diatonic tones, dictation of melodies with non-diatonic tones and modal melodies, harmonic identification of secondary dominants and augmented sixth and Neapolitan sixth chord, rhythmic dictation with changing meters and super triplets.

Effective: FA 2005
Rationale <u>ALL</u> Music courses: To offer a complete two-year course of study in music theory that will prepare our music students for transfer to either the CSU or UC systems with upper division status.

Course ID: **TECALC 087**
Course Title: Technical Calculations
Units: 4
Lecture: 4 Hours
Laboratory: None
Prerequisite: None
Corequisite: None

Catalog and Schedule Descriptions: Practical use and applications of technical calculations on topics such as electrical, measurements, temperature, volume, weight, and positioning. Includes the number line, working with dedicated formula, applied problems, geometric principles, graphs, right triangles, coordinate systems, and scientific notation.

Effective: FA 2005
Rationale: The Technical Department Advisory Committee recommended the deletion of TECALC 097 to follow the needs of industry rather than math theory. As recommended by the Curriculum Committee, a new course was created, removing the math prerequisite, and a new course number was issued to ensure students are aware the new course does not meet graduation requirements.

COURSE MODIFICATIONS

COURSE ID	COURSE TITLE	MODIFICATIONS	EFFECTIVE	RATIONALE
ASL 109	American Sign Language I	☒ DESCRIPTIONS: Catalog and Schedule Descriptions: Develops communication skills in American Sign Language. Presents basic vocabulary and grammar of ASL with a review of the characteristics of the deaf community. Primary emphasis is on comprehension abilities.	FA05	To reflect curriculum changes
ASL 110	American Sign Language II	☒ DESCRIPTIONS: Catalog and Schedule Descriptions: As part of the American Sign Language course sequence, ASL 110 is second in a series of four ASL courses designed for the student to develop proficiency in ASL usage. The course continues to stress the development of basic conversational skills with emphasis on expanding vocabulary and comprehension/production skills. Course content for ASL 110 is comprised of four basic categories: cultural awareness, grammatical features, vocabulary development, and conversational skills.	FA05	To reflect curriculum changes
ASL 111	American Sign Language III	☒ DESCRIPTIONS: Catalog and Schedule Descriptions: Develops conversational skills in American Sign Language. Presents expanded vocabulary and grammar of ASL with a review of primary issues in deaf culture. Emphasis is on idiomatic constructions as well as comprehension and production skills.	FA05	To reflect curriculum changes
ASL 112	American Sign Language IV	☒ DESCRIPTIONS: Catalog and Schedule Descriptions: The fourth course in a series designed to help students acquire communicative competency in American Sign Language, both comprehension and production skills within the contexts of literature and story telling. Emphasis is on cultural awareness, grammatical features, vocabulary development, and conversational skills.	FA05	To reflect curriculum changes
BIOL 123	Ecology and Environment	☒ DESCRIPTIONS: Catalog Description: Study of the basic concepts of ecology including the physical environment, ecosystems, energy production and transfer, and the impact of humans on ecosystems. Environmental considerations include renewable and non-renewable energy, food resources, pest control, waste management, maintenance of air and water quality, sustaining the biodiversity of ecosystems, global climate, and political and economic considerations. Schedule Description: Study of the basic concepts of ecology including the physical environment, ecosystems, energy production and transfer, and the impact of humans on ecosystems.	FA05	To reflect curriculum changes
BIOL 201	Cell and Molecular Biology	☒ PREREQUISITE: CHEM 150 or 150H	FA05	To reflect curriculum changes
CIT 114	Spreadsheets: Excel	☒ DESCRIPTIONS: Catalog and Schedule Descriptions: Production of workbooks using EXCEL, which integrates spreadsheet analysis, information management, and graphics. Includes the design and the use of worksheets; how to enter labels, numbers, formulas, and create graphs; how to format worksheets professionally; how to use Excel functions in different applications and understand the concept of data management in Excel; how to use the concept of what-if-analysis; how to consolidate data in a 3-D workbook and establish File Linking; and how to integrate Excel with the Web.	FA05	To reflect curriculum changes

CIT 116	Database Management: Access	☒ DESCRIPTIONS: Catalog and Schedule Descriptions: Development and maintenance of a database. Provides a working knowledge of designing a database and setting field properties, storing, retrieving, printing, and indexing records; creating informational and technical queries; developing customized forms and reports; establishing different types of relationships; integrating Access with the Web; and creating a database Switchboard. Emphasis on developing a practical ability to use a database in a Windows environment with full graphical user interface functionality.	FA05	To reflect curriculum changes
CS 110	Fundementals of Computer Science	☒ DESCRIPTIONS: Catalog and Schedule Description: An orientation in computer science for computer science majors. Topics include an overview of the computer discipline, the design and use of the computer devices, the art of problem solving and programming, and the representation of data. Includes hands-on experience in computer programming using languages such as Visual Basic.NET and C++. ☒ LABORATORY HOURS: 3 Hours ☒ PREREQUISITE: MATH 095	FA05	To reflect curriculum changes
ELEC 216A	Introduction to Industrial Electricity	☒ NUMBER: 216B	FA05	To reflect curriculum changes
ELEC 217A	Industrial Electricity	☒ NUMBER: 217B	FA05	To reflect curriculum changes
ELEC 218A	Controlling Industrial Electricity	☒ NUMBER: 218B ☒ PREREQUISITE: ELECTR 115 and ELECTR 116	FA05	To reflect curriculum changes
ELECTR 220A	F.C.C. Rules and Regulations	☒ NUMBER: 220B	FA05	To reflect curriculum changes
ELECTR 250A	Radio Transmitters, Receivers, and Antennas	☒ NUMBER: 250B	FA05	To reflect curriculum changes
ELECTR 255A	Telephone Networking	☒ NUMBER: 255B ☒ DESCRIPTIONS: Catalog Description: Course includes telephone topology with emphasis on the Open System Interconnection (OSI) model, telephony color code, tools, patch panels, phone wiring and installation, voice and data block wiring, installation, and programming/troubleshooting a digital key system and network. Schedule Description: Telephone and Data Networking, TCP/IP fundamentals.	FA05	To reflect curriculum changes
ELECTR 257A	Navigation and Communication Systems	☒ NUMBER: 257B ☒ PREREQUISITE: ELECTR 250B	FA05	To reflect curriculum changes
ELECTR 280A	Mini Computer Operation and Maintenance	☒ NUMBER: 280B	FA05	To reflect curriculum changes
ELECTR 290A	Industrial Computers and Robotics Maintenance	☒ NUMBER: 290B	FA05	To reflect curriculum changes

Curriculum Meetings: 09-27-04; 10-11-04; 10-25-04; 11-08-04
Conjoint Meeting: 11-15-04 (electronic)
Board of Trustee Meeting: 12-09-04

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MUS 101	Music Theory I: Fundementals	☒ DESCRIPTIONS: Catalog and Schedule Descriptions: Designed to teach music terminology, rhythm, pitch, notation, meter, key signatures, scales, chords, and keyboard geography. Includes a study of the role that music plays in society, its aesthetic impact, and some of the music of important composers in the development of music including J.S. Bach, Mozart, Beethoven, Brahms, Wagner, and Copland. ☒ COREQUISITE: MUS 101L	FA05	To reflect curriculum changes
MUS 102	Music Theory II: Harmony	☒ TITLE: Music Theory II: Scales and Modes ☒ DESCRIPTIONS: Catalog and Schedule Descriptions: Designed to teach analytical and compositional techniques through a progressive study of the following: counterpoint, harmony, modulation, voice leading, harmonic and formal analysis, and 20th century atonality. Examines key words by important composers in the development of music such as J.S. Bach, Beethoven, Debussy, Schoeberg and Stravinsky and the impact these pieces have made in our society and its aesthetic development. ☒ LECTURE HOURS: 3 Hours ☒ LABORATORY HOURS: None ☒ PREREQUISITE: MUS 101 and MUS 101L ☒ COREQUISITE: MUS 102L	FA05	To reflect curriculum changes
PHIL 102	Introduction to Critical Thinking	☒ TITLE: Critical Thinking and Writing ☒ DESCRIPTIONS: Catalog and Schedule Descriptions: An introduction to critical thinking focusing on argument and evidence and the ability to write coherent argumentative essays. Topics include recognition of the structures of reasoning in natural language, the evaluation of such reasoning (including informal fallacies), the uses and abuses of language, and an investigation of the rhetorical devices common in our culture. Students practice critical thinking by writing substantive arguments and essays.	FA05	To reflect curriculum changes
READ 015	Preparation for College Reading	☒ LABORATORY HOURS: 3 Hours	FA05	To reflect curriculum changes
READ 950	Reading Skills II	☒ LABORATORY HOURS: 3 Hours	FA05	To reflect curriculum changes
SPEECH 111	Interpersonal Communication	☒ DESCRIPTIONS: Catalog and Schedule Descriptions: Examines the dynamics of the communication process within the context of interpersonal relationships (those with friends, families, romantic partners, and co-workers.) Influences of self-concept, perception, listening, verbal and non-verbal communication, and emotional expression are explored. Principles of relationship development, communication climate, self-disclosure, and conflict management are also discussed. Rhetorical principles are also practiced and faculty supervised/evaluated in a variety of ways.	FA05	To reflect curriculum changes

Curriculum Meetings: 09-27-04; 10-11-04; 10-25-04; 11-08-04
Conjoint Meeting: 11-15-04 (electronic)
Board of Trustee Meeting: 12-09-04

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COURSE DELETIONS

COURSE ID	EFF DATE
ANTHRO 223	FA 05
CS 165	FA 05
MUS 103	FA 05
TECALC 097	FA 05

DISTRIBUTED EDUCATION

COURSE ID	DELIVERY MODE	EFF DATE
CIT 091	HYBRID	SP 05
CIT 092	HYBRID	SP 05
CIT 093	HYBRID	SP 05
CIT 094	HYBRID	SP 05
CIT 095	HYBRID	FA 05
CIT 096	HYBRID	FA 05
CIT 097	HYBRID	FA 05
CIT 098	HYBRID	FA 05
CS 110	HYBRID	FA 05
ENGL 102	HYBRID	SP 05
HIST 100	100% ONLINE	SP 05
HIST 101	100% ONLINE	SP 05
HIST 170	100% ONLINE	SP 05
HIST 171	100% ONLINE	SP 05

CHEMISTRY – ASSOCIATE OF SCIENCE DEGREE

The Chemistry program is designed to meet the diverse needs of students served by the community college: (a) students majoring in chemistry or related sciences, (b) students majoring in one of the health sciences, and (c) students fulfilling the general education science requirements.

Courses in the Chemistry Department are taught with a strong emphasis on the laboratory. In the advanced classes, students receive hands-on experience with a wide variety of instruments.

Students planning to transfer to a four-year institution and major in chemistry should consult with a counselor regarding the transfer process and lower division requirements.

		UNITS
REQUIRED COURSES:		
CHEM 150 or CHEM 150H	General Chemistry I	5
CHEM 151 or CHEM 151H	General Chemistry II	5
CHEM 212 or CHEM 212H	Organic Chemistry I	4
CHEM 213 or CHEM 213H	Organic Chemistry II	4
TOTAL UNITS:		**18**
RECOMMENDED COURSES:		
MATH 250	Single Variable Calculus	4
PHYSIC 150A or PHYSIC 200	General Physics I	5-6
PHYSIC 150B or PHYSIC 201	General Physics II	5-6

Effective: FA 2005
Rationale: The addition of the honors courses in Chemistry, and the course number changes in the Physics Department necessitate slight modification in the A.S. requirements for the degree in Chemistry.

COMPUTER SCIENCE - ASSOCIATE OF SCIENCE DEGREE

To graduate with a specialization in Computer Science and intending to transfer to four-year institutions, students must complete a total of 29 units listed below in addition to general education requirements.

		UNITS
REQUIRED COURSES:		
CS 110	Fundamentals of Computer Science	3
CS 190	Programming in C++	4
CS 265	Data Structures	3
PHYSIC 200	General Physics I	6
PHYSIC 201	General Physics II	6
SELECT ONE OF THE FOLLOWING COURSES:		3-4
CS 130	Applied Computer Logic	(3)
CS 170	Assembly Language	(4)
CS 215	Programming with Java	(4)
TOTAL UNITS:		**25-26**

Effective: FA 2005
Rationale: The Computer Science Department reviewed the lower division requirements for students majoring in Computer Science at regional, four-year institutions. The degree requirements now more closely align with the lower division requirements for Computer Science students planning to transfer to CSU San Bernardino, Cal. Poly. Pomona, UC Riverside, and UC Los Angeles, our primary transfer institutions.

COMPUTER SCIENCE CERTIFICATE

This certificate is designed to provide students with the fundamentals of software engineering, information processing concepts, and programming to prepare them for entry-level positions as programmers for scientific and business applications. In addition, this certificate completes the lower division requirements of the certificate program offered by the Computer Science Department at CSU San Bernardino.

		UNITS
REQUIRED COURSES:		
CS 110	Fundamentals of Computer Science	3
CIT 100	Introduction to Personal Computers	3
CS120	Introduction to Visual Basic.NET	4
CS 220	Advanced Visual Basic.NET	3
SELECT ONE OF THE FOLLOWING COURSES:		4
CS 190	Programming in C++	(4)
CS 215	Programming with Java	(4)
TOTAL UNITS:		**17**

Effective: FA 2005

Rationale: The Computer Science Department reviewed the lower division requirements for students completing the Certificate in Computer Systems and Programming offered by the Computer Science Department at CSU San Bernardino. The courses recommended articulate as the courses required by the CSUSB Computer Science Department. This modification is a natural realignment of our curricular requirements to match those of our major transfer school.