
MCHN 2337 Advanced Milling Operations.

CIP 4805010002

An advanced study of milling machine operations. Identification and/or use of milling cutters and support tooling including end mills, slab mills, face mills, involute cutters, rotary tables, and indexing heads. A review of related math and machine theory. (3 SCH, 2 lecture, 2 lab)

MCHN 2338 Advanced Computer-Aided Manufacturing (CAM). CIP 4805010002

A study of advanced techniques in Computer-Aided Manufacturing (CAM). (3 SCH, 2 lecture, 2 lab)

Prerequisite: MCHN 1326.

MCHN 2341 Advanced Machining I. CIP 4805010002

An advanced study of lathe and milling operations. Emphasis on advanced cutting operations of the lathe and milling machines, including the use of carbide insert tooling, bench assembly, and materials metallurgy. (3 SCH, 2 lecture, 2 lab)

MCHN 2345 Advanced Machining II. CIP 4805010002

Advanced milling, drilling, grinding, and lathe operations to close tolerance dimensions. Emphasis on job planning and advanced uses of precision measuring instruments. (3 SCH, 2 lecture, 2 lab)

MCHN 2380 Cooperative Education III - Machine Tool Technologist. CIP 4805010002

Career related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer, and the student. Under supervision of the college and the employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objectives guide the student through the paid work experience. (3 SCH, 1 lecture, 20 lab)

MRKG 1311 Principles of Marketing. CIP 5214010004

Introduction to the marketing functions; identification of consumer and organizational needs; explanation of economic, psychological, sociological, and global issues; and description and analysis of the importance of marketing research. (3 SCH, 3 lecture, 0 lab)

MUAP 11XX – 22XX Music-Applied. CIP 5009035426

Music-Applied courses are offered only for full time students (minimum of 12 semester hours) concurrently enrolled in an ensemble or for music majors officially designated by HEGIS code and who meet the prerequisite listed below. Exception: If the appropriate theory courses are not offered in a given semester, the music major student must be concurrently enrolled in an ensemble.

One-semester Hour Credit

Voice (1 SCH, 0.5 lecture, 0.5 lab) MUAP 1181, MUAP 1182, MUAP 2181, MUAP 2182

Piano (1 SCH, 0.5 lecture, 0.5 lab) MUAP 1169, MUAP 1170, MUAP 2169, MUAP 2170

Two-semester Hour Credit

Voice (2 SCH, 1 lecture, 1 lab) MUAP 1281, MUAP 1282, MUAP 2281, MUAP 2282

Piano (2 SCH, 1 lecture, 1 lab) MUAP 1269, MUAP 1270, MUAP 2269, MUAP 2270

Course numbers are listed for piano and voice only. Instruction in other instruments is available. Consult Music Department personnel or the division chair.

Prerequisite: For all Music -Applied courses - Successful completion of or concurrent enrollment in the appropriate freshman theory courses, and/or appropriate ensemble and/or approval of the division chair.

MUEN 1124 Wind Ensemble. CIP 5009035526

An instrumental ensemble which is open to members of the community. Rehearsal and performance of standard instrumental literature for winds and percussion. May be repeated for credit. (1 SCH, 0 lecture, 3 lab)

MUEN 1125 Jazz Band. CIP 5009035526

This course is designed to provide experience for the instrumental student in the American Jazz idiom. Jazz literature in a number of different styles is rehearsed and performed for various college and community functions. May be repeated for credit. (1 SCH, 0 lecture, 4 lab)

MUEN 1132 Piano Ensemble. CIP 5009035626

Brazosport College provides various instrumental and vocal ensembles to give outstanding students an opportunity to perform music written for these instruments and vocal combinations. Selections will be made from members of the college's large musical ensembles. May be repeated for credit. (1 SCH, 0 lecture, 3 lab)

MUEN 1134 Brass Ensemble. CIP 5009035626

Brazosport College provides various instrumental and vocal ensembles to give outstanding students an opportunity to perform music written for these instruments and vocal combinations. Selections will be made from members of the college's large musical ensembles. May be repeated for credit. (1 SCH, 0 lecture, 4 lab)

MUEN 1135 Woodwind Ensemble. CIP 5009035626

Brazosport College provides various instrumental and vocal ensembles to give outstanding students an opportunity to perform music written for these instruments and vocal combinations. Selections will be made from members of the college's large musical ensembles. May be repeated for credit. (1 SCH, 0 lecture, 3 lab)

MUEN 1137 Guitar Ensemble. CIP 5009035626

Brazosport College provides various instrumental and vocal ensembles to give outstanding students an opportunity to perform music written for these instruments and vocal combinations. Selections will be made from members of the college's large musical ensembles. May be repeated for credit. (1 SCH, 0 lecture, 3 lab)

MUEN 1141 College Choir. CIP 5009035726

Choral literature from various periods and styles rehearsed and performed for campus and community functions. May be repeated for credit. (1 SCH, 0 lecture, 5 lab)

MUEN 1142 Grand Chorus. CIP 5009035726

A choral ensemble that is open to members of the community. Rehearsal and performance of choral literature. May be repeated for credit. (1 SCH, 0 lecture, 3 lab)

MUEN 1151 Jazz Ensemble. CIP 5009035826

An instrumental-vocal jazz ensemble. Brazosport College provides various instrumental and vocal ensembles to give outstanding students an opportunity to perform music written for these instruments and vocal combinations. Selections will be made from members of the college's large musical ensembles. May be repeated for credit. (1 SCH, 0 lecture, 4 lab)

MUSI 1181 Class Piano I. CIP 5009075126

The development of keyboard skills for students who have experience reading musical notation. Two one-hour class periods per week. (1 SCH, 0 lecture, 2 lab)

Prerequisite: MUSI 1301 or approval of the division chair.

MUSI 1182 Class Piano II. CIP 5009075126

Study of harmony, transposition, accompaniment styles, improvisation, sight-reading; keyboard technique, major and minor scales. A minimum of two hours outside practice per week is required. (1 SCH, 0 lecture, 2 lab)

Prerequisite: MUSI 1181 or approval of the division chair.

MUSI 1183 Class Voice I. CIP 5009085126

An introduction to correct vocal singing by class instruction. The principles of correct posture, breath control, and English diction are introduced through laboratory experiences. A minimum of two hours outside practice per week is required. (1 SCH, 0 lecture, 2 lab)

MUSI 1184 Class Voice II. CIP 5009085126

A basic review of principles of MUSI 1183 including posture, breath control, and review of International Phonetic Alphabet. Introduction of Italian diction, expression and tone color, and different stylistic elements, using appropriate repertoire. A minimum of two hours outside practice per week is required. (1 SCH, 0 lecture, 2 lab)

MUSI 1211 Music Theory I. CIP 5009045126

A review of the fundamentals of music; part-writing of figured bass exercises; melody harmonizations requiring all diatonic triads, the dominant seventh and non-harmonic tones. Keyboard experience using aural and written exercises. (2 SCH, 2 lecture, 1 lab)

Prerequisite: Concurrent enrollment in MUSI 1216 or approval of the division chair.

MUSI 1212 Music Theory II. CIP 5009045126

A study of the fundamentals of music to include diatonic seventh chords, modulation to closely related keys, and secondary dominant relationships and other chromatically altered chords. Principles learned in class will be applied to the keyboard. (2 SCH, 2 lecture, 1 lab)

Prerequisite: MUSI 1211 and concurrent enrollment in MUSI 1217 or approval of the division chair.

MUSI 1216 Ear Training and Sight-Singing I.

CIP 5009045626

A first-year course which provides basic aural, visual, and vocal experience in dictation and sight-singing employing materials developed in MUSI 1211. (2 SCH, 1 lecture, 2 lab)

Prerequisite: Concurrent enrollment in MUSI 1211 or approval of the division chair.

MUSI 1217 Ear Training and Sight-Singing II.

CIP 5009045626

This course provides basic aural, visual and vocal experiences in dictation, music-reading and sight-singing employing materials developed in MUSI 1212. (2 SCH, 1 lecture, 2 lab)

Prerequisite: MUSI 1216 and concurrent enrollment in MUSI 1212 or approval of the division chair.

MUSI 1263 Jazz Improvisation. CIP 5009036526

This course is designed to teach the basic tools of the improvisor's art through actual playing experiences. The structures and styles of jazz are studied through the use of recorded music, and the student is taught to construct his own improvised solos. (2 SCH, 2 lecture, 1 lab)

Required skill level: College level reading and writing.

MUSI 1301 Fundamentals of Music (Piano).

CIP 5009045526

A study of the fundamentals of musical notation and an introduction to reading music at sight. Recommended for students who desire a basic course in musical skills. Required of music majors deficient in these basic skills. Students will be taught functional piano playing skills. (3 SCH, 3 lecture, 0 lab)

MUSI 1303 Fundamentals of Music (Guitar).

CIP 5009045526

A study of the fundamentals of musical notation and an introduction to reading music at sight. Recommended for students who desire a basic course in musical skills and who wish to learn to play guitar. (3 SCH, 3 lecture, 0 lab)

MUSI 1306 Music Appreciation. CIP 5009025126

A survey of music and musical styles in order to develop skills of musical perception. The basic structure of music is discussed, as well as how music relates to an individual's cultural and social experiences. Certain sections, as designated on semester schedules of classes, will feature a study of American jazz or rock. (3 SCH, 3 lecture, 0 lab)

Required skill level: College level reading and writing.

MUSI 1307 Music Literature. CIP 5009025226

A survey of styles and forms of music in the Medieval, Renaissance, Baroque, Classic, Romantic and Twentieth Century periods. Representative composers and compositions are studied by means of lecture, recordings, and reports. Students are expected to survey a large number of works representative of these styles, forms, and chronological periods. (3 SCH, 3 lecture, 0 lab)

Required skill level: College level reading and writing.

MUSI 1390 Electronic Music. CIP 5009045826

An introduction to electronic musical instruments, including synthesizers, samplers, drum machines, computers, and other MIDI (Musical Instrument Digital Interface) devices. Students will explore a variety of techniques creating and using electronically-produced sounds and developing skills in interfacing electronic instruments. Special projects designed for hands-on exploration of the possibilities of the equipment will be assigned. (3 SCH, 2 lecture, 2 lab)

Prerequisite: MUSI 1181, MUSI 1211, or MUSI 1301 or approval of the division chair. Students must have some keyboard experience and the ability to read music.

Required skill level: College level reading and writing.

MUSI 2181 Class Piano III. CIP 5009075126

The performance of all major and minor scales and cadences, as well as arpeggios. Literature that includes various left hand accompaniment styles, and extension of the right hand range to include the whole octave, with instruction in chord inversions and scale and arpeggio patterns. Two one-hour class periods per week. A minimum of two hours outside practice per week is required. (1 SCH, 0 lecture, 2 lab)

Prerequisite: MUSI 1182 or approval of the division chair.

MUSI 2182 Class Piano IV. CIP 5009075126

Continuance of the basic skills taught in MUSI 2181. Literature shall include the study of contrapuntal styles, four-part chorale style, and jump bass technique in the left hand. A piano proficiency examination is required. (1 SCH, 0 lecture, 2 lab)

Prerequisite: MUSI 2181 or approval of the division chair.

MUSI 2211 Music Theory III. CIP 5009045226

A study of advanced diatonic and chromatic harmony as an extension of MUSI 1211- 1212, analysis and composition of music in the common practice period. (2 SCH, 2 lecture, 1 lab)

Prerequisite: MUSI 1211 and MUSI 1212 and concurrent enrollment in MUSI 2216 or approval of the division chair.

Required skill level: College level reading and writing.

MUSI 2212 Music Theory IV. CIP 5009045226

A study of the structure of music with instruction in the principle forms, harmonic structures, and advanced compositional techniques including, but not limited to, the common practice period. (2 SCH, 2 lecture, 1 lab)

Prerequisite: MUSI 2211 and concurrent enrollment in MUSI 2217 or approval of the division chair.

Required skill level: College level reading and writing.

MUSI 2216 Advanced Ear Training and Sight Singing I. CIP 5009045726

Provides advanced aural, visual, and vocal experience in dictation and sight-singing employing materials developed in MUSI 2212. (2 SCH, 1 lecture, 2 lab)

Prerequisite: MUSI 1216 and MUSI 1217 and concurrent enrollment in MUSI 1217 or approval of the division chair.

Required skill level: College level reading and writing.

MUSI 2217 Advanced Ear Training and Sight Singing II. CIP 5009045726

A second-year course extending practice in those basic aural, visual, and vocal skills gained in MUSI 1216, MUSI 1217, and MUSI 2216, including instruction in larger forms and chromatic harmony. (2 SCH, 1 lecture, 2 lab)

Prerequisite: MUSI 1216 and concurrent enrollment in MUSI 2212 or approval of the division chair.

Required skill level: College level reading and writing.

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NDTE 1301 Film Interpretation of Weldments.

CIP 4805080002

A study of radiographic film, including exploration of radiographic basics, interpretation, and causes and effects of discontinuities. (3SCH, 2 lecture, 2 lab)

NDTE 1310 Liquid Penetrant/Magnetic Particle

Testing. CIP 4805080002

A theoretical study and practical application of the non-destructive testing techniques of penetrant and magnetic particle testing required by quality assurance and test personnel including proper test technique, or combination of techniques and interpretation, evaluation of test results. (3 SCH, 2 lecture, 4 lab)

NDTE 1354 Intermediate Ultrasonics. CIP 4805080002

Basic theory and applications of the ultrasonic techniques of materials testing covering the theoretical material from the certification test for Ultrasonic Level I American Society of Non-Destructive Testing. (3 SCH, 2 lecture, 2 lab)

Prerequisite: NDTE 1310 or approval of the division chair.

NDTE 2311 Preparation for Welding Inspection.

CIP 4805080002

Preparation for students for certification as welding inspectors, including accepted testing requirements and procedures, measurement systems, duties and responsibilities of inspectors, destructive and non-destructive testing, quality assurance/quality control, welding codes and blueprints, procedures, and case studies. An overview of welding tools and equipment, metallurgy, chemistry, and joint design. (3 SCH, 3 lecture, 0 lab)

Prerequisite: WLDG 1327 or approval of the division chair.

NUCP 1370 Nuclear Fundamentals I. CIP 4102050003

Introduction to theory and systems that are foundational to nuclear power plants. Theory topics include nuclear physics, nuclear fission, neutron life cycle, and properties of materials used in nuclear plants. Basic overview of specific systems associated with the primary side of a nuclear power plant is included. (3 SCH, 3 lecture, 0 lab)

Prerequisite: none

Required skill level code: Reading, A.