### Present

**College**
- Medicine

**Dept/Academic Unit**
- Orthopaedic Surgery

**Program Code**

**Program Name**
- Masters of Science in Biomedical Science: Orthopaedic Sciences

Minimum number of credit hours for completion (if changed):
- 68

List all courses which comprise the certificate or degree and identify term offered (Summer/Fall/Spring)

- ORHT 5600 Physical Exam of Musculoskeletal System
- ORTH 5700 Orthopaedic X-ray Conference
- ORHT 5800 Bone Physiology
- ORTH 5850 Sport Medicine
- ORTH5900 Orthopedic Biomechanics I
- ORTH 5910 Orthopedic Biomechanics II
- ORTH 5920 Orthopedic Biomechanics III
- ORTH 6500 Orthopaedic Basic Science Seminar
- ORTH 6550 Journal Paper Review in Orthopedic Science
- ORTH 6730 Research in Orthopedic Science
- ORTH 6910 Independent Study (Orthopedic Trauma)
- ORTH 6920 Independent Study (Spine)
- ORTH 6930 Independent Study (Orthopedic Biomechanics)
- ORTH 6940 Independent Study (Orthopedic Anatomy)
- ORTH 6950 Independent Study (Orthopedic Radiology)
- ORTH 6960 Independent Study (Upper Extremity and Hand)
- ORTH 6990 Thesis Research

Identify delivery method: In Class

Proposed Effective Term: 2014 40 (Fall)

### Proposed

**College**
- Medicine

**Dept/Academic Unit**
- Orthopaedic Surgery

**Program Code**

**Program Name**
- Masters of Science in Biomedical Science: Orthopaedic Sciences

Minimum number of credit hours for completion (if changed):
- 66

List all courses which comprise the certificate or degree and identify term offered (Summer/Fall/Spring)

- BMSP 6330 Genes and Genomes (fall)
- BMPS 6350 Proteins (fall)
- BMPS 6360 Membranes (fall)
- BMPS 6380 Methods of Biomedical Science (fall)
- INDI 6020 "On Being a Scientist" (fall)
- BMPS 6340 Cell Biology and Signaling (spring)
- BIOE 5710 Soft and Hard Tissue Biomechanics (fall)
- ORTH 6500 Musculoskeletal Anatomy and Orthopaedic Basic Science Seminar (fall & spring)
- ORTH 5800 Bone Biology and Physiology (spring)
- ORTH 6990 Thesis Research (spring/summer/fall)
- ORTH 5850 Intro to Clinical Orthopaedics (summer)
- ORTH 6550 Journal Paper Review (summer/fall/spring)
- ORTH 5700 Orthopaedic X-ray Conference (sum/fall/spring)
- ORTH 675/B75 Biomaterials in Medicine (spring)
- Clinical Electives in Orthopaedic Surgery (fall/spring)
- ORTH 6910 Orthopaedic Trauma
- ORTH 6920 Spine
- ORTH 6930 Sports Medicine
- ORTH 6940 Adult Reconstruction & Tumor
- ORTH 6950 Foot and Ankle
- ORTH 6960 Hand and Upper Extremity

Identify delivery method: In Class

Date Added: 9-13-2013
Graduate Council Approved: 1-21-2014
To Provost: 2-6-2014
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For Administrative Use Only

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