I. Approval of Minutes

II. Reports

III. Consent Items
   A. Degree Approvals: Master of Science (M.S.) in Recording Arts at the University of Colorado at Denver - Samson
   B. Issuance of Bonds and Notes to Finance Authority Loans to Colorado Institutions of Higher Education: Submission of Section 23-3.1-208(1)(B)(1) - Demuth
   C. Program Plan: 3955 Cragwood Drive (Compassion International Building), University of Colorado at Colorado Springs - Johnson

IV. Action Items
    None

VI. Items for Discussion and Possible Action
    None

VII. Written Reports for Possible Discussion
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TOPIC: PROPOSAL: MASTER OF SCIENCE (M.S.) IN RECORDING ARTS AT THE UNIVERSITY OF COLORADO AT DENVER

PREPARED BY: SHARON M. SAMSON

I. SUMMARY

The Regents of the University of Colorado have submitted a degree proposal for the Master of Arts (M.S.) in Recording Arts. The University of Colorado at Denver designed the proposed degree program to prepare students for careers in audio applications for the fields of mass communications, arts and entertainment industries. Initial enrollment is projected to be five students. This will increase to fifteen at full implementation, with six of those projected as coming from out of state.

It has evolved out of the Technology specialization in UCD’s undergraduate degree in Music. The program will have two tracks: recording arts pedagogy and professional recording arts. Both will require 34 credits -- 15 credits in required foundation courses, 15 electives, and a four-credit capstone, consisting of either a thesis or a professional audio portfolio. The masters’ degree program is designed to be completed in two years.

The program is aligned with UCD’s urban and graduate role and mission. UCD is the only public institution located in Denver that has graduate authority. Currently no other graduate program in the recording arts exists in Colorado. All issues raised by CCHE during the concept paper review have been resolved.

Commission staff recommends approval of the proposal for a Master of Science in Recording Arts at the University of Colorado at Denver.

II. BACKGROUND

The concept paper for the M.S. in Recording Arts was on the Commission agenda at its meeting of March 1, 2001. The Commission asked the Regents to address nine specific matters in the full proposal. The institution’s responses to these are contained in the body of the proposal. Subsequent to the Commission’s consideration of the concept paper, the full proposal was submitted for peer review and external review. Professor Kenneth Pohlman, Director of Music Engineering Technology at the University of Miami, served as the external reviewer. His report is attached as Appendix A. The institution’s response follows as Appendix B. The Regents approved the proposal on April 18, 2002.

Several disciplines contribute to the scholarly work related to audio applications. These include Music, Acoustics, Electrical Engineering, Computer Science, and Architecture. The
expanding utilization of technically complex audio in science, film, broadcast, computers, education, and performance requires an increasing sophistication of those working in the field.

The program is intended to build upon the department’s undergraduate specialization in Music Technology within the major in Music. It is designed for those students seeking “career preparation for the broad array of audio-related industries.” These would include working as advanced-level recording professionals in a variety of fields such as audio product design, radio, television, film and video production, computer game development, and sound design. Career opportunities might also include teaching in the recording arts at the school or college level, and working as managers in the recording industry.

The program will require 34 credits. Fifteen of the required credits are in a common core of four courses and fifteen are electives. The remaining four credits are awarded for the required thesis or audio recording portfolio.

The program was originally designed to be completed in as few as three academic terms. The department has accepted the recommendation. The external reviewer expressed concern that such a compressed schedule would not allow sufficient time for a quality thesis or preparation of a quality portfolio. He suggested that a two-year course of study would be more suitable for most students. The department accepted that recommendation and has modified the proposed program accordingly.

To be admitted into the program, a student must hold appropriate undergraduate degree, take the Graduate Records Exam (GRE), complete an program entrance assessment of her/his knowledge of recording techniques, musical acoustics, music on the computer, and studio calibration and maintenance, and undergo a faculty review of the applicant’s music recording portfolio. Continuation in the program is contingent on the student’s earning at minimum 3.0 GPA.

III. STAFF ANALYSIS

In analyzing the concept paper and the program proposal, Commission staff considered role and mission, duplication, program need and demand, and quality issues such as curriculum and resources. Both the concept paper and the full proposal were provided to the other governing boards for peer review. As noted above, the full proposal also was submitted for external review.

Role and Mission and Program Duplication
The proposed program appears to be within the statutory role and mission of the University of Colorado at Denver. No other Colorado public institution offers a graduate program in this field of study.

**Program Need and Demand**

The recording industry has become very complex technologically. In addition, the demand for high quality audio has increased dramatically in recent years.

The external reviewer notes that audio technology is a growth market. He believes that of the two proposed tracks in the program, Recording Arts Pedagogy and Professional Recording Arts, the latter will offer the “greatest potential” for employment.

Commission staff regard the enrollment projections provided in the proposal as realistic (Attachment C). The institution projects that five students will enroll in year one, increasing to 15 students in the third year of implementation. The enrollment will be split between in-state and out-of-state students. At full implementation, the program is projected to produce five graduates per year.

**Program Quality and Resources**

In assessing the quality of the proposed program, the capacity of the institution to offer the new degree, and the cost-effectiveness of the program, CCHE staff rely substantially on governing board review and an external reviewer. The University of Colorado has provided assurances that the Regents considered these matters when the degree was on their agenda. The Regents concluded that the program has the appropriate quality and pledged to support the program with the necessary resources (Attachment D).

The projections of estimated expenses and revenues for the program are attached as Appendix E. The Commission staff has questions about the cost estimates is the absence of any equipment expenditures after the program’s second year. Given the nature of the field, this would seem to be highly unlikely.

The external reviewer noted that the field of recording arts is a relatively new compared to traditional music and engineering studies. With a 25-year history, it has now grown into a recognized academic field. He further stated that the proposed graduate degree, with its emphasis on “hands-on and aesthetic skills” is a logical extension of the undergraduate studies in the recording arts at UCD.

The external reviewer expressed concern that the listing of remedial courses in the proposal suggests that the program might admit students not fully qualified to do graduate work in this field. He cautioned that graduate study is different from undergraduate study and that the program should not be seen as a retraining ground for those from other disciplines.
Response: The institution has responded that the primary market would be students with appropriate undergraduate training but the program wishes to provide an option for those with a degree from a discipline unrelated to the recording arts. CCHE staff recommend that UCD select other word to describe the courses since “remedial” has specific meaning in Colorado statute. This will alleviate any false impressions regarding the admission requirements for the degree program and the degree level.

UCD has a faculty fully capable of offering the proposed degree. The question is whether the faculty, given current assignments, can assume the additional responsibilities of the new degree. The external reviewer warned against teaching loads becoming too high with a subsequent loss of the faculty-student interaction necessary for quality graduate work in this field.

Response: The institution has stated that the faculty is committed to the proposed program. It has proposed a 12 to 1 student faculty ratio to support the intense faculty student interaction.

**Concerns Raised by the Commission**

Because the Recording Arts program will be offered by one of the Auraria institutions, the use of facilities was a major concern. The proposal originally planned to use the renovated Arts Building space to offer the music technology courses. The institutions began negotiating and strategizing when it became apparent that capital construction plans would be significantly postponed to the out years. The following excerpts are from the negotiated agreement.

Current Facilities: UCD has four control rooms address five performance areas with state-of-the-art audio recording ability. Acoustic isolation and architecture are modeled after contemporary industrial designs to provide appropriate instructional and laboratory requirements in audio. The equipment holdings are upgraded on a regular basis to reflect the new technologies of the industry by purchases, gifts and loans from industry. The inventory value of these holdings is approximately $700K of which half was contributed from non-institutional resources.

The new King Performing Arts Center on the Auraria Campus provides a Concert Hall, Recital Hall, Theater, Experimental Electronic Music Hall, and various preparation spaces that will all use audio and electronic support. These spaces are shared tri-institutionally through a negotiated agreement with the Community College of Denver and the Metropolitan State College of Denver. The proposed deployment of these facilities as occasional
laboratories to support the Recording Arts program will be done within the confines of UCD’s present and/or future agreements with MSCD and CCD.

Current recording laboratory facilities, housed permanently in the Arts Building on the Auraria campus and temporarily in the King Center, will accommodate a graduate student population of 15 FTE. The planned renovation of the Arts Building will add an additional two recording laboratories for the program and additional recording space housed within the film building at the Lowry campus could provide space for future expansion. There is no plan to deliver the entire program at Lowry. The desirability and need for expanding recording laboratories, beyond those currently in operation and planned during the renovation, would be evaluated as faculty is hired and student FTE is increased. Any need for expansion space for the Recording Arts will not be made at the expense of the current space needs of MSCD and CCD; if warranted in the future, UCD is prepared to rent space off-campus or relocate some film-related portions of the program to the Lowry campus.

Because facilities on the Auraria campus are shared with the Metropolitan State College of Denver and the Community College of Denver, these institutions are sensitive to any impact that a new program may have on their utilization of space in the Arts Building and the King Center. A Memorandum of Understanding that outlines UCD’s commitment to not adversely affect current space agreements will be signed prior to the initiation of the Recording Arts program.

IV. STAFF RECOMMENDATION

That the Commission approve the proposed Master of Science (M.S.) degree in Recording Arts to be offered by the University of Colorado at Denver.
STATUTORY AUTHORITY

23-1-107. Duties and powers of the commission with respect to program approval, review, reduction and discontinuance. (1) The commission shall review and approve, consistent with the role and mission and statewide educational needs, the proposal for any new program before its establishment in an institution. No institution shall establish a new program without first receiving the approval of the commission. As used in this subsection (1), “new program” includes any new curriculum which would lead to a new vocational or academic degree. The commission shall further define what constitutes an academic or vocational program and shall establish criteria or guidelines which define programs and procedures for approval of new academic or vocational program offerings.
External Review of New Degree Program Proposal

Master of Science in Recording Arts
University of Colorado at Denver

Completed by

Kenneth Pohlmann (M.S.E.E.)
Professor and Director of Music Engineering Technology
University of Miami
School of Music
Coral Gables, FL

I. Assess the quality of the proposed program.

A. If the proposed program is in a well-defined traditional field of study, does the curriculum provide generally accepted content in the field? Alternatively, if the proposed program is in a new or less traditional field of study, does the proposal demonstrate that the curriculum represents the cutting edge in the field? Is this field of study sufficiently defined to warrant the awarding of a degree?

The field of recording arts is relatively new compared to more traditional music and engineering studies, but in its 25-year history has grown into a recognized academic discipline. The proposed degree program does provide generally accepted content; however, it is worth noting that because the number of institutions offering degrees in music engineering is relatively small, there is considerable diversity among degrees and their objectives. Some programs have considerable mathematical and traditional engineering content, while others instead stress recording arts. It is my opinion that the highly regarded program at UCD falls in the latter category. Thus, it is reasonable that a UCD graduate-degree offering would include similar content that stresses hands-on operational and aesthetic skills as opposed to mathematical or engineering theory. In this regard, the proposed curriculum does offer a logical extension to the undergraduate studies. It will be important, however, to ensure that the level of instruction is clearly above that of the undergraduate level. The prospectus lists 10 remedial undergraduate “existing” courses for the proposed curriculum. This should not indicate an eagerness to enroll students with an unrelated undergraduate major who may not be fully qualified to participate at a graduate level. If nothing else, students who have completed the full, four-year undergraduate degree may be upset that students from another major can take a one-year “shortcut” that trumps their undergraduate degree with a graduate degree in the same field. Clearly, as we all know, a graduate program must never become a “retread” path for students with another unrelated undergraduate degree who wish to conveniently switch to another field of study. Frankly,
this could undermine the UCD undergraduate degree program’s outstanding reputation. I believe that the authors of the prospectus have already seen this potential danger, because as noted in the prospectus, only applicants with a strong recording arts background will be admitted; it will be important to observe this requirement carefully. Finally, yes, the field of study does indeed warrant the awarding of a master’s degree.

B. Assess how the methods of delivering instruction support and enhance program quality.

The proposed curriculum contains a good combination of lecture and laboratory courses. I also applaud the decision to include a “capstone” requirement of a thesis or portfolio. I am not familiar with a master’s degree that can be concluded in one academic year; however, if this is supported by the State of Colorado and the National Association of Schools of Music then it should be satisfactory. Because of the short time frame, I am concerned that a student may not have sufficient time to write a detailed thesis paper, conduct in-depth research, or accumulate a portfolio, especially because the capstone course(s) is taken simultaneously with other courses in a “full load” semester, as opposed to a separate semester when the thesis (for example) is taken alone. To partly address this, I would suggest that these requirements be initiated early in the curriculum, to give the student sufficient time to complete the requirement at a high level. It might be worth considering a two-year track, for students who wish to spend more time on their degree requirements, particularly the thesis or portfolio portions. Clearly, students who elect to pursue an internship should not be allowed to complete the degree in one year.

II. Assess the capacity of the institution to offer the proposed program.

A. Is the number of faculty and the academic preparation and experience of members of the faculty consistent with a high quality program? If there are other programs at the institution that support the proposed program, are the size of the facilities ad the qualifications and experience of the members of those supporting faculties consistent with a high quality program?

The faculty is certainly capable of offering this degree program. However, if they are like most faculty, they are probably already enjoying heavy teaching loads with their popular undergraduate program. Even by capping enrollment in the graduate program, their future workload could be unrealistically high. We must all remember that graduate study is quite different from undergraduate study. Graduate study entails much more private interaction between the student and his/her advisor. Indeed, rather than the higher level of instructional content, it is precisely that interaction that distinguishes graduate study from undergraduate study. So, it is not appropriate to simply conduct an enrollment count, extrapolating from the undergraduate experience, to anticipate the increased load on the faculty. It is expensive to offer graduate study because a much small faculty/student ratio is needed. A 15:1 ratio might not be realistic for graduate study that entails much small-group, laboratory work. In
addition, it is worth noting that added faculty “overhead” duties such as graduate admissions, thesis advising, exit juries, and tracking of graduates, all contribute to a faculty member’s workload. I hope this is considered when making decisions on new faculty hiring and capping student enrollment. This argument applies to the principal faculty, and also to faculty in associated programs. Indeed, the benefit of student/faculty interaction with other faculty outside the major school is very important, and often overlooked. Undergraduate education is mass production. Graduate study is custom work.

B. Are the other resources necessary for a high quality program either currently available or assured? (Resources include library material, computer equipment, and laboratories and may include other types of support for certain programs.)

The authors of the proposed curriculum are the best judges of the adequacy of facilities to accommodate additional students. The existing facilities are certainly quite good, but care must be taken to ensure that enough time is available for the increased number of students. Additionally, it is possible to expect that graduate students, particularly those electing the “portfolio” option may require relatively more laboratory time. The prospectus does cite “a minimum of 336 hours spent in recording laboratories during the RECORDING ARTS student’s tenure.” Clearly, considerable laboratory space will be required. That being said, the current facilities combined with future renovations would seem to be adequate in terms of recording space. As students elect the thesis option, it may be necessary to add additional specialized (non recording studio) facilities such as anechoic chambers, etc.

C. Are the costs budgeted by the institution realistic for the delivery of the minimum hours of instruction required for the degree? Is the budget by the institution a realistic assessment of the costs of a high quality program?

III. Comment upon the level of interest and demand by students for a degree in this field.

The prospectus cites compelling evidence that there exists a strong student demand for this type of degree. It would be interesting to know what percentage of inquiries are from undergraduate recording arts majors (from UCD or elsewhere) have expressed interest in pursuing a graduate degree in their chosen field of study. These students should form the backbone of an advanced degree program, while remedial students from relatively unrelated majors (music or otherwise) with lesser preparation would present a lesser incentive to initiate a new degree. That being said, it is my anecdotal opinion that this program would be supported by strong student interest.

IV. Assess the demand and need for graduates in this field:

A. The employability of graduates, currently and in the future;

The prospectus cites compelling evidence that there exists a strong industry demand for graduates
from this type of degree program. There is no question that technology, including audio technology, is a growth market, and will create of excellent career paths. Of the proposed degree’s two paths (Recording Arts Pedagogy and Professional Recording Arts) I believe the latter will offer the greatest potential. While an increasing number of academic positions will be available, the recording arts academic niche is still quite small. Still, there should be a steady demand for teachers in the field at the college level. As the prospectus notes, high school teaching positions may also be available. The professional career path looks particularly excellent; the Internet and other technologies will only spur demand. I am particularly intrigued by the focus on audio forensics; surely this will be a growth area. Overall, the employability for graduates should be strong, particularly in industry.

B. National degree production and need for graduates.

As the prospectus states, graduate study in the recording arts is underrepresented in the U.S. While other allied degree offerings (in media, engineering, communications, etc) do fulfill much of demand, the availability of this specific degree will be welcomed.

V. If possible, comment on the potential economic impact that could be expected to result from the establishment of this program in Colorado.

It is difficult for me to address this issue. The statistics supplied in the prospectus certainly suggest that Colorado’s need for qualified audio practitioners will continue to grow at a fast pace. Graduates from the proposed program will certainly meet some of this demand, and as entrepreneurs will undoubtedly contribute to the economic growth of this technology field.

VI. Additional Reviewer Comments.

The Commission will hold proposals for graduate degrees to the following standards:

1. For master’s degrees, proposals will have to illustrate how the programs will meet the identifiable needs of the modern, technologically oriented market place.

Clearly, this proposed degree program is directly targeted at a technically oriented market place. Moreover, this Internet/computer-driven market has an increasing demand for audio/visual content, replayed through sophisticated outlets such as home theaters, etc. This proposed degree extends the scope of a highly successful and internationally respected undergraduate degree program, and will coincide with industry demand for individuals with even higher technical skills. Based on my 25-year experience as an academic (and practicing professional) in the music engineering field, I support and endorse this proposed degree program.

2. For doctoral programs, compelling evidence needs to be provided of potential program excellence, national recognition, or a unique contribution to statewide need and program array.
Not Applicable.
RESPONSE TO EXTERNAL REVIEWER’S REPORT
Master of Science in Recording Arts (RECORDING ARTS)
College of Arts and Media
University of Colorado at Denver
April 16, 2002

The Recording Arts faculty received the final report of Prof. Kenneth Pohlmann (University of Miami, FL) on April 15, 2002. The following represents areas of concern identified by Prof. Pohlmann and the UCD faculty’s response to those concerns.

I. Assess the quality of the proposed program

Evaluator’s area of concern: The sequence of remedial undergraduate courses suggested for non-recording arts students who wish to enroll in the RECORDING ARTS may suggest a dilution of the quality of the graduate program and may devalue the undergraduate program.

Response: The RECORDING ARTS faculty concur with the evaluator’s concern that the entry standards and competencies of applicants be equivalent with those outcomes of the current Bachelor of Science in Music program in the recording arts. The proposal outlines the kinds of courses that a student would have to demonstrate competency in before the student could be admitted into graduate study.

It is the primary intent of the program to serve as advanced education for people with qualified degrees. In the event that a student comes with a degree from a field other than music technology/recording arts, then preparatory coursework will be necessary to qualify for admission to the RECORDING ARTS. Candidates from disciplines other than Recording Arts or not holding a degree comparable to the Bachelor of Science in Music – Emphasis in Recording Arts, will be required to complete the appropriate courses of preparation. This model would reflect the traditional two-year course of study towards the master’s degree from an allied discipline.

Students applying for the RECORDING ARTS degree must have sufficient undergraduate preparation and/or professional experience to qualify for advanced study at the graduate level. The following courses represent the core of knowledge and skills considered minimal for advancement to candidacy for the RECORDING ARTS degree, for students who do not hold an appropriate undergraduate degree in a recording arts discipline. It is estimated that an additional 1 ½ to 2 years of preparation will be necessary before these students will be qualified for admission into the RECORDING ARTS.
MINIMUM SEQUENCE OF PREPARATION FOR NON-RECORDING ARTS DEGREE RECIPIENTS

SUMMER, 10 credit hours
(Credits not applicable to Graduate Electives)
MUS 2470 Music on the PC (or MUS 3820) 3
MUS 2540 Audio Production I 3
MUS 2560 Audio Production II w/ Lab 4

FALL, 11 credit hours
MUS 4505 Audio Sweetening w/lab 4
MUS 4550 Audio Production III w/ Lab 4
MUS 4580 Audio Production Seminar 3

SPRING, 14 credit hours
MUS 3540 Recording Studio Maint./Calib. 3
MUS 3820 Digital Music Techniques 3
MUS 4570 Audio Production IV w/ Lab 4
MUS 4575 Surround Sound w/lab 4

Evaluator’s area of concern: The one-year RECORDING ARTS course sequence may not allow sufficient time for the student to conduct in-depth thesis research. A two-year traditional sequence is recommended.

Response: The RECORDING ARTS faculty concur with the concern that the accelerated program of study in the proposal, that allows the student to earn the RECORDING ARTS in a summer-fall-spring intensive course of study, does not allow sufficient time for in-depth preparation of the written thesis or professional thesis project. To that end, the program has been modified into a two-year course of study that will be the program recommended to most applicants. The revised program is as follows:

FOUR SEMESTER SEQUENCE IN CANDIDACY

FALL, 11 credit hours
MUSS 5000 Introduction to Graduate Study 3
MUS 5590 Graduate Audio Studies and lab 4
RECORDING ARTS Elective 4

SPRING, 12 credit hours
MUS 6510 Audio Studies Pedagogy 4
MUS 6580 Graduate Audio Seminar 4
RECORDING ARTS Elective 4
SUMMER, 7 credit hours
  MUS 5500 Topics in Professional Audio 3
  RECORDING ARTS Elective 4

FALL, 4 credit hours
  MUS 6950 Thesis in Professional Audio or (4)
  MUS 6980 Professional Audio Portfolio 4

It is highly advised that students allow for sufficient time to clearly focus on the requirements and preparation of the Portfolio or Thesis. A semester (or two) following appropriate graduate preparation should be dedicated to this activity without other coursework. The above model would reflect the traditional two-year course of study towards the master’s degree.

II. Assess the capacity of the institution to offer the proposed program.

Evaluator’s area of concern: The 15:1 faculty/student ratio proposed might not be realistic for graduate students and may not account for the additional faculty overhead required for the administration of the graduate program.

Response: While the proposal suggests that the capacity for the program should be capped at a 15:1 student - faculty ratio on page 7, the program’s business and staffing plan is projected for a maximum of 10-12 FTE in year five of its operation as outlined in Table 1 on page 20. The 15:1 ratio referred to on page 7 refers to individual class caps for studio-based instruction at the graduate level. We concur with the assessment of the external evaluator that an overall ratio of 15:1 in a graduate studio-based program is likely to have an effect on the faculty members’ ability to continue their research and fully support the overhead administrative tasks associated with graduate education. We do not anticipate admissions for the program to exceed the projected 12:1 ratio outlined in Table 1.

Evaluator’s area of concern: There should be sufficient lab time available for students in the facilities to accomplish their projects.

Response: The RECORDING ARTS faculty have done a thorough analysis of the recording studio utilization for out-of-class lab time. With the addition of a studio space in the King Center, the opportunities for expansion of the audio recording core with the anticipated resumption of capital construction funding in FY2004 for the Arts Building Renovation, and some capabilities for audio sweetening that will come with the renovation of the Starz Film Center, the faculty are confident that sufficient open lab time will be available to support the RECORDING ARTS program.
III. Comments upon the level of interest and demand by students for a degree in this field.

Areas of concern:
No concerns expressed.

IV. Assess the demand and need for graduates in this field.

Areas of concern:
No concerns expressed.

V. Comments on the potential economic impact that could be expected to result from the establishment of this program in Colorado.

Areas of concern:
No concerns expressed.
TABLE 1: ENROLLMENT PROJECTIONS

<table>
<thead>
<tr>
<th>Name of Program:</th>
<th>MASTER OF SCIENCE DEGREE IN RECORDING ARTS</th>
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<tbody>
<tr>
<td>Name of Institution:</td>
<td>UNIVERSITY OF COLORADO AT DENVER</td>
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</table>

DEFINITIONS:
Academic year is the period beginning July 1 and concluding June 30.

Headcount projections represent an unduplicated count of those students officially admitted to the program and enrolled at the institution during the academic year.

FTE is defined as the full-time equivalent number of those students majoring in the program, regardless of the classes enrolled, during the academic year.

Program graduate is defined as a student who finishes all academic program requirements and graduates with a formal award within a particular academic year.

SPECIAL NOTES:
To calculate the annual headcount enrollment, add new enrollees to the previous year headcount and subtract the number who graduated in the preceding year. Adjust by the anticipated attrition rate.

To calculate FTE, multiply the number of students times the projected number of credit hours students will be typically enrolled in per year and divide by 30.

The data in each column is the annual unduplicated number of declared program majors. Since this table documents program demand, course enrollments are not relevant and shall not be included in the headcount or FTE data.

<table>
<thead>
<tr>
<th></th>
<th>Yr 1</th>
<th>Yr 2</th>
<th>Yr 3</th>
<th>Yr 4</th>
<th>Yr 5</th>
<th>Full Implementation</th>
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<tr>
<td>1-a In-state Headcount</td>
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<td>1-b Out-of-State Headcount</td>
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<td>3-b Out-of-state FTE</td>
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</table>

Attach a brief description explaining the specific source data for projecting the program headcount (e.g., actual enrollment in a similar program at a comparable college).

Signature of person who completed the Enrollment Table

Signature of Governing Board Information Officer

Date
MEMORANDUM

TO: Timothy Foster, Executive Director, CCHE
FROM: Jack O. Burns, Vice President for Academic Affairs and Research
DATE: April 3, 2002
SUBJECT: Quality, Capacity, and Cost Effectiveness of Proposed MS in Recording Arts at the University of Colorado at Denver

As part of the process of recommending a degree proposal to the Colorado Commission on Higher Education, the Office of the Vice President for Academic Affairs and Research for the University of Colorado system provides an analysis of the quality, capacity, and cost-effectiveness of full proposals. This memorandum provides that analysis. It is based upon review of the proposal and discussion with the Board of Regents and with involved campus faculty and administrators.

Quality of Proposed Program
The proposed program is an MS in Recording Arts to be offered by the College of Arts and Media. This graduate degree is designed to prepare students for careers in audio applications for mass communications, education, arts and the entertainment industries. It addresses the artistic and technical issues of design and application of audio practitioners. The curriculum grounds students firmly in recording techniques, computer applications and audio software, research, and large project management. Students complete either a research thesis or a professional portfolio. The two areas of emphasis offered are Recording Arts Pedagogy and Professional Recording Arts. Field experiences will be available through the College’s extensive network in the recording industry. The faculty members, all practicing professionals, combine pedagogical skill with extensive knowledge and experience in their field. Development of the curriculum has been guided by the model curriculum of the Audio Engineering Society, the professional organization responsible for education in this discipline. The curriculum of the proposed program is similar to those of the University of Miami, New York University, Peabody Conservatory of Music, and McGill University. The UCD curriculum has
several unique offerings: laboratory instruction in Recording Arts Pedagogy, Audio Forensics, and Audio Sweetening for Film. In sum, the quality of the proposed program is very good.

**Capacity of Institution to Offer Program**
UCD has a small, but expert faculty capable of offering a state-of-the-art program. The campus has superb facilities: the new King Performing Arts Center provides a concert hall, recital hall, theater, experimental electronic music hall, and other preparation spaces; and the film and video facilities at Lowry where UCD has a partnership with the Community College of Aurora. The College of Arts and Media has the resources to offer this proposed program.

**Cost-Effectiveness of the Program**
This degree program builds upon the existing undergraduate program in Recording Arts. The curriculum, with only two tracks, is quite concentrated and efficient. The expertise of area industry specialists, available through student internships, will enrich the learning experience for students without additional cost to the institution.

**Economic Impact**
No major economic impact is claimed for this proposed new degree. Program graduates should be able to find positions in the Denver. The Denver metro area is a center of activity for cable television, telecommunications, media production, performing arts, film and broadcast production, computer hardware and software development, and audio research and manufacturing.

**Summary**
UCD has provided the Board of Regents and the Vice President for Academic Affairs and Research evidence of its ability to offer the MS in Recording Arts with appropriate academic rigor and excellent quality; it has provided evidence of its capacity to offer this program and of the program’s cost effectiveness. The system administration and the Board both support the creation of the MS in Recording Arts.
<table>
<thead>
<tr>
<th>TABLE 3 - PROJECTED EXPENSE AND REVENUE ESTIMATES</th>
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<td>PURPOSE: This table documents what the program will cost and how the institution plans to cover the costs. All cost and revenue projections should be in constant dollars (do not include an inflation factor).</td>
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</tbody>
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<thead>
<tr>
<th>ESTIMATED AMOUNT in DOLLARS</th>
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<tr>
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<tr>
<td>Operating Expenses:</td>
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<tr>
<td>1 Facility</td>
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<td>2 Financial Aid specific to program</td>
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<td>3 Instructional Materials</td>
</tr>
<tr>
<td>4 Program Administration</td>
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<tr>
<td>5 Rent/Lease</td>
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<tr>
<td>6 Other Operating Costs</td>
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<td>7 Total Operating Expenses</td>
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<tr>
<td>Program Start-Up Expenses</td>
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<td>8 Capital Construction</td>
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<td>9 Equipment Acquisitions</td>
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<td>10 Library Acquisitions</td>
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<tr>
<td>11 Total Program Start-Up Exp.</td>
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<tr>
<td>TOTAL PROGRAM EXPENSES</td>
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<tr>
<td>Enrollment Revenue</td>
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<tr>
<td>12 General Fund: State Support</td>
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<tr>
<td>13 Cash Revenue: Tuition</td>
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<tr>
<td>14 Cash Revenue: Fees</td>
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<tr>
<td>Other Revenue</td>
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<tr>
<td>13 Federal Grants</td>
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<tr>
<td>14 Corporate Grants/Donations</td>
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<tr>
<td>15 Other fund sources *</td>
</tr>
<tr>
<td>16 Institutional Reallocation *</td>
</tr>
<tr>
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<tr>
<td>TOTAL PROGRAM REVENUE</td>
</tr>
</tbody>
</table>

*If revenues are projected in this line, please attach an explanation of the specific source of the funds. If reallocated, the specific departments and the impact the dollars will have on the departments that will provide the reallocated dollars.

Sincerely,

[Signature of Person who completed the Expense/Revenue Table]
TOPIC: ISSUANCE OF BONDS AND NOTES TO FINANCE AUTHORITY LOANS TO COLORADO INSTITUTIONS OF HIGHER EDUCATION: SUBMISSION OF SECTION 23-3.1-208(1)(B)(I) REPORT

PREPARED BY: DEBRA L. DEMUTH

I. SUMMARY

The Colorado Student Obligation Bond Authority ("CSOBA") has been granted the power, under Section 23-3.1-206(h), Colorado Revised Statutes, to make loans (referred to in the statute as "authority loans") to Colorado institutions of higher education for the purposes of funding student loans. CSOBA is permitted to use proceeds of bonds and notes to finance such authority loans but must submit a written report to the Commission pursuant to Section 23-3.1-208(1)(b)(I), Colorado Revised Statutes, prior to the issuance of such bonds and notes. The report is required to set forth certain specific information regarding the bonds and notes to be issued by CSOBA and the terms and conditions of authority loans to be made to Colorado institutions of higher education using proceeds of such bonds and notes.

II. BACKGROUND

CSOBA has previously submitted a Program Overview and Background to the Commission regarding its college lender program. Under this program, CSOBA agrees to loan money to a Colorado university and the university uses such loaned amounts to make guaranteed student loans to graduate students. CSOBA then buys the student loans from the university at a premium. The net profits earned by the university are used to assist with the financial aid programs at that school.

CSOBA plans to issue its Student Loan Revenue Bonds and Notes, Senior 2002 Series VII-A (the "2002VII-A Auction Rate Obligations") pursuant to certain indentures of trust between CSOBA and The Bank of New York, as trustee. Proceeds of the 2002VII-A Auction Rate Obligations are expected to be used, among other things, for the purpose of funding authority loans. In accordance with Section 23-3.1-208(1)(b)(I), CSOBA is submitting the attached report to the Commission. A draft of the Official Statement for the 2002VII-A Auction Rate Obligations has been provided to the Executive Director.

III. ACTION REQUIRED

Acceptance of the written report submitted pursuant to Section 23-3.1-208(1)(b)(I).
REPORT PURSUANT TO
SECTION 23-3.1-208(1)(b)

1. Colorado Student Obligation Bond Authority ("CSOBA") was established by and exists under Title 23, Article 3.1, Parts 2 and 3 of Colorado Revised Statutes, as amended (the "Act").

2. Under Section 23-3.1-206(h), CSOBA has been granted the power to use bond proceeds or other moneys available to make Loans (defined by the Act as an "authority loan") to Colorado institutions of higher education and Colorado nonprofit corporations acting for such institutions, for the purpose of funding student obligations.

3. Under Section 23-3.1-208(1)(b), CSOBA is permitted to issue its bonds or notes to finance the making of authority loans, provided that, prior to and following the issuance of any such bonds or notes, CSOBA is required to submit the following:

   (i) to the Colorado Commission on Higher Education (the "Commission"), at the regularly scheduled meeting immediately preceding the anticipated date of issuance of such bonds or notes, a report setting forth specific information regarding CSOBA's then current proposals, plans or expectations respecting the bonds and notes and the proposed authority loan or loans to be made with the proceeds thereof (Section 23-3.1-208(1)(b)(I));

   (ii) to the executive director of the commission, at the earliest practicable date preceding issuance of such bonds or notes, a copy of the preliminary official statement relating to the bonds and notes (Section 23-3.1-208(1)(b)(II)); and

   (iii) to the Commission, at a regularly scheduled meeting immediately following issuance of the bonds and notes, a copy of the official statement relating to the bonds and notes (Section 23-3.1-208(1)(b)(III)).

4. The Act provides in Section 23-3.1-208(b)(IV) that it shall not be a ground for invalidating or challenging the bonds or notes if the final terms differ from the report submitted to the commission or if the preliminary official statement differs from the official statement submitted to the commission.

5. CSOBA plans to issue its Student Loan Revenue Bonds and Notes, Senior 2002 Series VII-A (as further described below, the "2002VII-A Auction Rate Obligations"), pursuant to certain indentures of trust between CSOBA and The Bank of New York, as trustee (as further described below, the "Auction Rate Indentures"). CSOBA wishes to use certain
proceeds of the 2002VII-A Auction Rate Obligations for the purpose of making of authority loans to various institutions of higher education in Colorado in order to enable such institutions to originate guaranteed student loans for their graduate program students.

6. The following report is being submitted to the Commission by CSOBA as required by Section 23-3.1-208(1)(b)(I):

   (a) **Principal Amount of the Financing.** The aggregate principal amount of the 2002VII-A Auction Rate Obligations shall be $110,000,000, as follows:

   $32,000,000 Student Loan Revenue Bonds, Senior 2002 Series VII-A1;
   $16,000,000 Student Loan Revenue Bonds, Senior 2002 Series VII-A2; and
   $62,000,000 Taxable Student Loan Revenue Notes, Senior 2002 Series VII-A3.

   (b) **Interest Rate.** The 2002VII-A Auction Rate Obligations will be issued as auction rate securities, and the interest rate on each series thereof will be determined in accordance with the procedures set forth in the Seventh Series Indenture of Trust between CSOBA and The Bank of New York, as Trustee, dated as of August 1, 2002 (the "Seventh Series Indenture").

   (c) **Use of Proceeds.** Proceeds of the 2002VII-A Auction Rate Obligations will be deposited in the Loan Fund held under the Auction Rate Indentures to be expensed for the origination of guaranteed student loans and authority loans.

   (d) **Provisions of Auction Rate Indentures.** The Auction Rate Indentures provide that the 2002VII-A Auction Rate Obligations are limited obligations of CSOBA, secured by income derived from the guaranteed student loans and authority loans originated with proceeds thereof. Copies of the following are on file with the Executive Director of the Commission: (1) the Amended and Restated Indenture of Trust between CSOBA and The Bank of New York, as Trustee, dated as of November 1, 1999 (the "Master Indenture"), and (2) the Seventh Series Indenture. The Master Indenture and the Seventh Series Indenture constitute the Auction Rate Indentures.

   (e) **Manner of Award or Sale.** The 2002VII-A Auction Rate Bonds will be sold by negotiated sale to William R. Hough & Co.

   (f) **Authority loan documents.** In order to originate an authority loan, CSOBA and the institution enter into a revolving finance agreement (the "Financing Agreement") under which CSOBA uses bond proceeds to advance money to the institution. The institution is required to use amounts advanced by CSOBA under the Financing Agreement to fund guaranteed student loans to its graduate program students. The student loans so funded are pledged by the institution as collateral for advances under the Financing Agreement.
(g) Terms and Conditions of Authority Loans. Under the Financing Agreement, CSOBA agrees to advance the specified amount set forth therein at a negotiated interest rate as an authority loan to the institution. CSOBA and the institution also enter into a loan purchase agreement pursuant to which CSOBA agrees to purchase from the institution, at a premium price, all student loans originated by the institution using funds under the Financing Agreement. The purchase price so paid by CSOBA to the institution is required to be used: first, to pay off the advances under the Financing Agreement, including interest, and second, to enhance financial aid provided by the institution.

Submitted July 8, 2002
The University of Colorado at Colorado Springs (UCCS) proposes to lease a property located at 3955 Cragwood Drive in Colorado Springs (the Compassion International Building) from the University of Colorado Foundation. By August 15, the CU Foundation is planning to finalize both the purchase of the building from Compassion International and the lease with UCCS. UCCS plans to move the following programs into the building in time for the 2003 spring semester: The Beth-El College of Nursing & Health Sciences (now lodged in trailers at the northwest corner of the campus), other health-related functions (Wellness Center, the Student Health Clinic and the Colorado Springs extension of The Lynn Institute), TheatreWorks, the laboratories for the Mechanical & Aerospace Engineering (MAE) programs and courses for the Network, Information & Space Security Center (NISCC). The building is located one-half mile east of the main campus at the corner of Austin Bluffs Parkway and Union Boulevard.

UCCS began looking at this property in 2001 when it was put on the market. The current owner, Compassion International, had outgrown the building and built itself a larger facility in Colorado Springs. In the beginning, UCCS had planned to ask for state capital construction money to purchase the building. However, with the recent downturn in the economy, the Legislature has implemented major cuts in capital construction projects, including four projects already approved for funding: a new Engineering Building, renovations of the existing Engineering building, a new Beth-El Nursing/Science building and the renovation of Dwire Hall where TheatreWorks is now housed.

With the state forecasting at least a four to five year drought in funds for any capital construction projects, UCCS began to pursue alternative sources of funding to secure this property.

The 3995 Cragwood Drive building is 84,351 gross square feet. UCCS plans on a 67 percent efficiency use by utilizing 56,500 assigned square feet for the following programs: nursing and other health-related functions, TheatreWorks, the laboratories for the Mechanical &
Aerospace Engineering programs and courses for the NISCC. Some classrooms and general use space will be shared by the various disciplines. There is a loading dock for service to the building with adjacent receiving and storage areas.

The building will be connected by fiber optic cables to the main campus. Currently, there are data and phone jacks in practically every room. A central, digitally linked security alarm system integrated with equipment housed within the building is already in place. The system will be linked to fire, police and emergency personnel.

Transportation with the main campus will be addressed by: 1) an expansion of the current internal campus shuttle bus system and, 2) a sidewalk along Austin Bluffs Parkway that covers the entire distance between the building and the main campus. There is paved parking for 247 cars.

The CU Foundation will assume the $1,171,900 cost of re-modeling the building to conform to the program plan. Either the Foundation or UCCS will fund all controlled maintenance costs for the duration of the eight-year lease. Funding for the lease will come from multiple sources which include the campus general fund, federal funds, auxiliary funds and gifts from outside the campus and will average approximately $1.4 million per year for both the lease and operating expenses.

This building will be the permanent home of the Beth-El College of Nursing & Health Sciences which will save several millions of dollars in capital construction costs. TheatreWorks acquires a state-of-the-art performance/auditorium space as well as a modern sound system. Accreditation of the academic MAE programs will be enhanced with the addition of the teaching laboratory spaces. Once the new Engineering Building is finally constructed, this space will be used to expand the Beth-El nursing and related health programs. With TheatreWorks moving from Dwire Hall, their space in Dwire will be used to support the 31 percent enrollment growth in the last nine years in the College of Business.

Finally, the trailers vacated by Beth-El will be used to house the faculty and staff displaced by the shut-down of the Cragmor Hall project and will provide needed research laboratory and classroom functions for other areas of UCCS.

IV. STAFF RECOMMENDATION

That the Commission approve the University of Colorado at Colorado Springs’ Program Plan for 3995 Cragwood Drive subject to the following conditions being met:

1. The Program Plan and proposed lease are approved by the University of Colorado Board of Regents at their August 7-8, 2002 meetings;
2. The lease between UCCS and the CU Foundation is approved by CCHE;
3. UCCS should do due diligence with the neighbors at the current site of the
nursing school and inform them the trailers will continue to be used to house University employees until other facilities are finally built;

4. Currently approved program plans for capital construction projects, including the Engineering Building, Dwire Hall, and the Beth-El College of Nursing & Health Sciences and Natural & Physical Sciences Building shall be revised according to the 3995 Cragwood Drive Program Plan;

5. Staff also recommends the Commission treat this leased space as part of the geographic boundary of the campus for teaching courses within approved programs. Thus, the appropriate SFTE produced in the leased property would be reported for State funding.
STATUTORY AUTHORITY

C.R.S. 23-1-106 Duties and powers of the commission with respect to capital construction and long range planning.

(3) The commission shall review and approve master planning and program planning for all capital construction projects of institutions of higher education on state-owned or state-controlled land, regardless of the source of funds, and no capital construction project shall commence except in accordance with an approved master plan, program plan, and physical plan.

Attachment: Program Plan Evaluation FY 02-03
PROGRAM PLAN EVALUATION FY 02-03
Colorado Commission on Higher Education

<table>
<thead>
<tr>
<th>Project: 3955 Cragwood Drive, Colo Spgs Compassion International Bldg</th>
<th>Institution: University of Colorado at Colorado Springs – UCCS</th>
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<tbody>
<tr>
<td>Original Submittal Date: July 9, 2002</td>
<td>Revision Date:</td>
</tr>
<tr>
<td>Total Project Cost: $10,517,453 8-year lease</td>
<td>Total Square Footage: 84,351 gsf; 56,500 asf</td>
</tr>
<tr>
<td>Construction Cost: None – Lease from CU Foundation; $1,171,900 re-modeling cost borne by Foundation</td>
<td>New Construction: Remodel: $1,171,900</td>
</tr>
<tr>
<td>Purpose Code: F (2), (5); G (2), (5)</td>
<td>Cost per Square Foot: New Construction: Remodel: $20.74 per sq. ft.</td>
</tr>
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Phased Funding: NA

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Evaluation

Project Description: The University of Colorado at Colorado Springs proposes to lease the above referenced property from the University of Colorado Foundation. By August 15, 2002, the CU Foundation is planning to finalize both the purchase of the building from Compassion International and the lease with UCCS. UCCS plans to move the following programs into the building in time for the 2003 spring semester: the Beth-El College of Nursing & Health Sciences (now lodged in trailers at the northwest corner of the campus), other health-related functions (Wellness Center, the Student Health Clinic and the Colorado Springs extension of The Lynn Institute), TheatreWorks, the laboratories for the Mechanical & Aerospace Engineering (MAE) programs and courses for the Network, Information & Space Security Center. The building is located approximately one-half mile east of the main campus at the corner of Austin Bluffs Parkway and Union Boulevard.

The Cragwood Drive building is 84,351 gross square feet; UCCS plans on a 67 percent efficiency use by utilizing 56,500 assigned square feet for the programs listed in the paragraph above. Some classrooms and general use space will be shared by the various disciplines. There is a loading dock for service to the building with adjacent receiving and storage areas.
The building will be connected by fiber optic cables to the main campus; currently, there are data and phone jacks in practically every room. A central, digitally linked security alarm system integrated with equipment housed within the building is already in place. The system will be linked to fire, police and emergency personnel.

Transportation between the proposed leased building and the main campus will be addressed by: 1) an expansion of the current internal campus shuttle bus system and, 2) a sidewalk along Austin Bluffs Parkway that covers the entire distance between the building and the main campus. There is also paved parking for 247 cars.

Funding for the eight-year lease will come from multiple sources which include the campus general fund, federal funds, auxiliary funds and gifts from outside the campus and will average approximately $1.4 million per year for both the lease and operating expenses. For more detailed information, please see the attached financial analysis.

Project Justification: By leasing this building, UCCS will solve a myriad of problems connected with academic programs and the facilities needed to successfully provide those programs.

In previous years, UCCS has had several capital construction projects approved to house the various academic programs which will be relocated into the Cragwood Drive property:

- New Engineering Building
- Renovations of the Existing Engineering Building
- New Beth-El Nursing/Science Building
- Renovation of Dwire Hall

With the recent downturn in the economy, the Legislature has implemented major cuts in capital construction projects, including the four projects listed above. With the state forecasting at least a four to five year drought in funds for any kind of capital construction, being able to lease this building from the CU Foundation is an appropriate solution to obtaining the needed space for these academic programs.

CCHE Recommendations: The Commission should approve this program plan for the property known as 3955 Cragwood Drive in Colorado Springs for the uses outlined in the previous paragraphs, subject to the following conditions:

- The Program Plan and proposed lease are approved by the CU Board of Regents at their August 7-8, 2002 meetings;
- The lease between UCCS and the CU Foundation is approved by CCHE;
- UCCS should do due diligence with the neighbors at the current site of the nursing school and inform them that the trailers will continue to be used to house University employees until other facilities are finally built; and
- Currently approved program plans for capital construction projects, including the Engineering Building, Dwire Hall, and the Beth-El College of Nursing & Health
Sciences and Natural & Physical Sciences Building shall be revised according to the Program Plan.

CCHE staff also recommends the Commission treat this leased space as part of the geographic boundary of the campus for teaching courses within approved program. Thus, the appropriate SFTE produced in the leased property would be reported for State funding.

CCHE Comments: With the downturn in the Colorado economy and the expected reduction in state revenues for the next several years, both CCHE and the institutions of higher education need to get very creative in planning and implementing capital construction projects. This project is just that – it is creative and it will provide alternatives for several other already approved capital projects that either might never get built or built earlier than 2007-08.

This will be the permanent home of the Beth-El College of Nursing & Health Sciences which will save several millions of dollars in capital construction costs. TheatreWorks acquires a state-of-the-art performance/auditorium space as well as a very modern sound system. There is plenty of room to expand the nursing and health-related programs once the new Engineering Building is finally built.

Finally, by utilizing the trailers vacated by Beth-El for the faculty and staff displaced by the shutdown of the Cragmor Hall project, UCCS solves this problem as well as housing research laboratory and classroom functions of the University, thus temporarily reducing the deficit in such spaces.

Program and Facility Requirements: Please see Appendices for comments on the nursing shortage, a space needs analysis and enrollment figures (both actual and projected) for the various programs.

Appropriateness of Funding: Funding for both the lease and operating expenditures is appropriate. See appendices for financial analysis.

Facility Alternatives: At the present time, the main alternative is to have the programs remain where they are. The consequences of this are turning away prospective nursing students in an era where there is a severe nursing shortage; a danger of losing accreditation in the engineering programs because of the lack of adequate teaching laboratory and classroom space; leaving TheatreWorks in sub-standard space with no capacity for expansion of their programs. Finally, leasing other off-campus property would be more expensive and probably farther away from the main campus.

Consistency with Institutional Master Plan: Totally consistent.

Consistency with Institutional 5-Year Capital Improvement Plan Schedule: Totally consistent with a revised 5-Year Capital Improvement Plan Schedule.
Attachments:

1. Financial Analysis
2. Nursing Shortage
3. Space Needs
4. Enrollment Information: Actual and Projections
5. Space Use for Cragwood Drive Building
TOPIC: FTE – SERVICE AREA EXEMPTIONS

PREPARED BY: SHARON M. SAMSON

I. SUMMARY

This agenda item publishes approved service area exemptions that allow community colleges, local district colleges and area vocational school to provide short-term access to a certificate or degree program not available in another institution’s defined service area. The FTE is claimable for state support.

C.R.S. 23-1-109 limits state support eligibility to credit hours offered within the geographic boundaries of the campus. The geographic service areas for community colleges are defined in CCHE policy Section I, Part N Service Areas of Colorado Public Institutions of Higher Education apply to two-year colleges, area vocational schools (AVS), Adams State College (ASC) and Mesa State College (MSC).

The Commission recognizes that the FTE Policy may not address every possible circumstance. Institutions may request an exemption from the Commission when encountering a circumstance that the policy does not explicitly address. Exemptions approved by CCHE staff and entered into the public record do not alter or establish the state policy, but only apply to the applying institution for the particular circumstance for a specified period of time.

CCHE staff approved the following service areas exemptions. No further action is needed.

<table>
<thead>
<tr>
<th>INSTITUTION</th>
<th>HOST INSTITUTION</th>
<th>PROGRAM</th>
<th>SERVICE AREA</th>
<th>FTE</th>
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<tbody>
<tr>
<td>Lamar Community College</td>
<td>Pueblo Community College</td>
<td>Agribusiness</td>
<td>Pueblo, Fremont, Custer counties</td>
<td>19</td>
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