I.   CATALOG INFORMATION

    A.   Discipline: <u>COMPUTER NETWORKING SYSTEMS ENGINEERING (CNSE)</u>

    B.   Subject Code and Number: <u>CNSE M49</u>

    C.   Course Title: <u>Microsoft SQL Server Client Application Architecture</u>

    D.   Credit Course units:

           Units: <u>1.5</u>

           Lecture Hours per week: <u>1</u>

           Lab Hours per week : <u>1.5</u>

           Variable Units : <u>No</u>

    E.   Student Learning Hours:

        Lecture Hours:

           Classroom hours: <u>17.5</u>

        Laboratory/Activity Hours:

           Laboratory/Activity Hours <u>26.25</u>

        Total Combined Hours in a 17.5 week term: <u>43.75 - 0</u>

    F.   Non-Credit Course hours per week <u>   </u>

    G.   May be taken a total of: [X] 1 [ ] 2 [ ] 3 [ ] 4 time(s) for credit

    H.   Is the course co-designated (same as) another course: No [X] Yes [ ]
        If YES, designate course Subject Code & Number: <u>   </u>

    I.   Course Description:

Provides advanced level instruction in database management emphasizing client-server interface requirements using Microsoft Access. Fourth in a four course series to provide comprehensive Microsoft SQL Server database management skills. Server-side skills are presumed.

Field trips are not required for this course.

    J.   Entrance Skills

        *Prerequisite: No [ ] Yes [X] Course(s)
        <u> CNSE M35 and CNSE M39</u>

        *Corequisite: No [X] Yes [ ] Course(s)

        <u>   </u>

        Limitation on Enrollment: No [X] Yes [ ]

        <u>   </u>

        Recommended Preparation: No [X] Yes [ ] Course(s)

        <u>   </u>

        Other: No [X] Yes [ ]

_____

K.   Other Catalog Information:

II.   COURSE OBJECTIVES

Upon successful completion of the course, a student will be able to:

		Methods of evaluation will be consistent with, but not limited by, the following types or examples.
1	Describe client-server interfaces: DAO, ADO, OLE DB, ODBC and others.	
2	Understand multi-tiered DNA implementation approaches.	
3	Understand multi-tiered DNA implementation approaches.	
4	Develop database diagrams leading to the creation of tables, views, stored procedures and other objects on the server.	
5	Work with Transact-SQL to manage information supporting the business needs of the enterprise.	
6	Program forms to capture and display data for transfer to and from the Back Office server.	
7	Produce reports needed by managers of the enterprise.	
8	Understand and program connection objects, record set objects, command objects and ADO events.	
9	Scale Access databases to larger systems on SQL Server; and modify SQL Server to support yet larger data sets.	
10	Administer SQL Server/MSDE database engines to include security and data archiving processes.	
11	Move and transform data to or from other DBMS's: Oracle, Access, and SQL Server.	
12	Understand and generate scripts using the SQL-DMO libraries.	
13	Comprehend and write software to manage transactions and locks.	
14	Collect and publish data to and from Internet sites to include exporting and importing XML data.	

III.   COURSE CONTENT

Estimated %	Topic	Learning Outcomes
Lecture (must total 100%)		
32.00%	Microsoft Access Projects and Microsoft SQL Server	1, 2, 3, 4, 5
7.00%	Forms and reports	6, 7

18.00%	Programming with ADO	8
7.00%	Upsizing	9
28.00%	SQL Server/MSDE administration	10, 11, 12
2.00%	Transactions and locks	13
6.00%	Internet access	14

IV. TYPICAL ASSIGNMENTS

A. Writing assignments

Writing assignments are required. Possible assignments may include, but are not limited to:

1	1. Short answer class assignments. 2. Final examination.

B. Appropriate outside assignments

Appropriate outside assignments are required. Possible assignments may include, but are not limited to:

1	1. Assigned readings from text and other sources. 2. Field observations of database development and administration.

V. METHODS OF INSTRUCTION

Methods of instruction may include, but are not limited to:

☐ Distance Education – When any portion of class contact hours is replaced by distance education delivery mode (Complete DE Addendum, Section XV)

☒ Lecture/Discussion

☒ Laboratory/Activity

☒ Other (Specify)
   Individual project Online materials, assigned Internet research, and computer simulations.

☐ Optional Field Trips

☐ Required Field Trips

VI. METHODS OF EVALUATION
Methods of evaluation may include, but are not limited to:

☐ Essay Exam	☒ Classroom Discussion	☒ Skill Demonstration
☒ Problem Solving Exam	☐ Reports/Papers/Journals	☐ Participation
☒ Objective Exams	☒ Projects	☒ Other (specify)

Assess troubleshooting skills in a Lab environment

VII. REPRESENTATIVE TEXTS AND OTHER COURSE MATERIALS

VIII. STUDENT MATERIALS FEES

[X] No   [ ] Yes

IX. PARALLEL COURSES

College	Course Number	Course Title	Units

X. MINIMUM QUALIFICATIONS

Courses Requiring a Masters Degree:
Associate Degree + 6 years networking experience + MCSE or MCSA certificate.

XI. ARTICULATION INFORMATION

A. Title V Course Classification:

1. This course is designed to be taken either:

[ ] Pass/No Pass only (no letter grade possible); or

[ ] Letter grade (P/NP possible at student option)

2. Degree status:
Either [X] Associate Degree Applicable; or [ ] Non-associate Degree Applicable

B. Moorpark College General Education:

1. Do you recommend this course for inclusion on the Associate Degree General Education list?
Yes: [ ] No: [X] If YES, what section(s)?

[ ] A1 - Natural Sciences - Biological Science

[ ] A2 - Natural Sciences - Physical Science

[ ] B1 - Social and Behavioral Sciences - American History/Institutions

[ ] B2 - Social and Behavioral Sciences - Other Social Behavioral Science

[ ] C1 - Humanities - Fine or Performing Arts

[ ] C2 - Humanities - Other Humanities

[ ] D1 - Language and Rationality - English Composition

[ ] D2 - Language and Rationality - Communication and Analytical Thinking

[ ] E1 - Health/Physical Education

[ ] E2 - PE or Dance

[ ] F - Ethnic/Gender Studies

C. California State University(CSU) Articulation:

1. Do you recommend this course for transfer credit to CSU?   Yes: [X] No: [ ]

2. If YES do you recommend this course for inclusion on the CSU General Education list?
Yes: [ ] No: [X] If YES, which area(s)?

A1 [ ]   A2 [ ]   A3 [ ]   B1 [ ]   B2 [ ]   B3 [ ]   B4 [ ]

C1 ☐   C2 ☐   D1 ☐   D2 ☐   D3 ☐   D4 ☐   D5 ☐

D6 ☐   D7 ☐   D8 ☐   D9 ☐   D10 ☐   E ☐

D.   University of California (UC) Articulation:

    1. Do you recommend this course for transfer to the UC?   Yes: ☐ No: ☒

    2. If YES do you recommend this course for the Intersegmental General Education Transfer Curriculum (IGETC)?   Yes: ☐ No: ☒

IGETC Area 1: English Communication

    ☐ English Composition
    ☐ Critical Thinking-English Composition
    ☐ Oral Communication

IGETC Area 2: Mathematical Concepts and Quantitative Reasoning

    ☐ Mathematical Concepts

IGETC Area 3: Arts and Humanities

    ☐ Arts
    ☐ Humanities

IGETC Area 4: Social and Behavioral Sciences

    ☐ Anthropology and Archaeology
    ☐ Economics
    ☐ Ethnic Studies
    ☐ Gender Studies
    ☐ Geography
    ☐ History
    ☐ Interdisciplinary, Social & Behavioral Sciences
    ☐ Political Science, Government & Legal Institutions
    ☐ Psychology
    ☐ Sociology & Criminology

IGETC Area 5: Physical and Biological Sciences (mark all that apply)

    ☐ Physical Science Lab or Physical Science Lab only (none-sequence)
    ☐ Physical Science Lecture only (non-sequence)
    ☐ Biological Science
    ☐ Physical Science Courses
    ☐ Physical Science Lab or Biological Science Lab Only (non-sequence)
    ☐ Biological Science Courses
    ☐ Biological Science Lab course

☐ First Science course in a Special sequence

☐ Second Science course in a Special Sequence

☐ Laboratory Activity

☐ Physical Sciences

IGETC Area 6: Language other than English

☐ Languages other than English (UC Requirement Only)

☐ U.S. History, Constitution, and American Ideals (CSU Requirement ONLY)

☐ U.S. History, Constitution, and American Ideals (CSU Requirement ONLY)

XII. REVIEW OF LIBRARY RESOURCES

A. What planned assignment(s) will require library resources and use?

No library resources have been specified for this course

B. Are the currently held library resources sufficient to support the course assignment?

YES: ☐ NO: ☒

If NO, please list additional library resources needed to support this course.

XIII. PREREQUISITE AND/OR COREQUISITE JUSTIFICATION

CNSE M49: Not Applicable

XIV. WORKPLACE PREPARATION

CNSE M49: Not Applicable

XV. DISTANCE LEARNING COURSE OUTLINE ADDENDUM

CNSE M49: Not Applicable

XVI. GENERAL EDUCATION COURSE OUTLINE ADDENDUM

CNSE M49: Not Applicable

XVII. STUDENT MATERIALS FEE ADDENDUM

CNSE M49: Not Applicable

XVIII. REPEATABILITY JUSTIFICATION TITLE 5, SECTION 55041

CNSE M49: Not Applicable

XIX. CURRICULUM APPROVAL

Course Information:

Discipline:

COMPUTER NETWORKING SYSTEMS ENGINEERING (CNSE)

Discipline Code and Number: CNSE M49

Course Revision Category: New Course

Course Proposed By:

Originating Faculty _____

Faculty Peer: _____

Curriculum Rep: _____

Department Chair: _____

Division Dean: _____

Approved By:
Curriculum Chair: _____

Executive Vice President: _____

Articulation Officer: _____

Librarian: _____

Implementation Term and Year: _____

Approval Dates:
Approved by Moorpark College Curriculum Committee: 11/11/2003

Approved by Board of Trustees (if applicable): _____

Approved by State (if applicable): _____