

Stanford University ♦ School of Engineering
BioMedical Computation - Molecular and Cellular Track
2006-2007 Sample Program Sheet

Final version of completed and signed program due to the department no later than one month prior to the last quarter of senior year.

| | |
|----------------------|---------------------------|
| Name: _____ | SU ID: _____ |
| Local Address: _____ | Local Phone: _____ |
| _____ | Email: _____ |
| _____ | Date B.S. expected: _____ |

Mathematics and Science Requirement (Delete courses not taken)

| Dept | Course | Title | Units | Grade | ✓ if Transfer | Transfer/AP Approval | |
|---------------------------------------|--------|--|-----------|---------------------------|---------------|----------------------|------|
| | | | | | | Initials | Date |
| Mathematics (21 units minimum) | | | | | | | |
| MATH | 41 | Calculus | 5 | | | | |
| MATH | 42 | Calculus | 5 | | | | |
| STAT | 116 | Probability | 5 | | | | |
| CS 103X or CS 103A and 103B | | Discrete Structures (accelerated or regular sequence) | 4 or 6 | | | | |
| Math 51 or Stat 141 | | Advanced Calculus or Biostatistics | 5 or 4 | | | | |
| <i>Mathematics Unit Total</i> | | | | <i>(24 units minimum)</i> | | | |
| Science (17 units minimum) | | | | | | | |
| PHYS | 41 | Mechanics | 4 | | | | |
| CHEM 31A&B or CHEM 31X | | Chemical Principles (regular sequence or accelerated) | 8 or 4 | | | | |
| CHEM | 33 | Structure & Reactivity | 4 | | | | |
| BIOSCI | 41 | Genetics, Biochemistry, and Molecular Biology | 5 | | | | |
| BIOSCI | 42 | Cell Biology and Animal Physiology | 5 | | | | |
| BIOSCI | 43 | Plant Biology, Evolution, and Ecology | 5 | | | | |
| <i>Science Unit Total</i> | | | 31 | <i>(17 units minimum)</i> | | | |
| | | | | <i>(41 units minimum)</i> | | | |

Technology in Society Requirement (1 course required; see UGHB, Fig. 3-3 for approved list)

| | | | | | | |
|--|--|--|--|--|--|--|
| | | | | | | |
|--|--|--|--|--|--|--|

Engineering Fundamentals (2 courses required)

| | | | | | | |
|---------------------------------------|-----|-------------------------------------|---|--|--|--|
| CS | 106 | Programming Abstractions (A&B or X) | 5 | | | |
| | | Elective (see note 1) | 3 | | | |
| <i>Engineering Fundamentals Total</i> | | | | | | |

NOTES

- * This form is available as an Excel file at <http://ughb.stanford.edu/>. The printed form must be signed by the advisor and, if required, by the departmental representative. Changes must be initialed in ink.
 - * All courses listed on this form must be taken for a letter grade if offered by the instructor.
 - * Minimum Combined Grade Point Average for all courses in the major (combined) is 2.0.
 - * Transfer and AP credits in Math, Science, Funds., & TIS must be approved by the SoE Dean's office. Transfer credits in Engineering Depth must be approved by the Advisor. Transfer credit information and petitions are available at <http://ughb.stanford.edu/transfer.html>.
 - * All courses listed on this form must only be included under one category. Delete courses not taken.
- (1) One course required, 3 to 5 units. See Engineering Fundamentals list in School of Engineering Handbook.

program sheet continues on page 2

BioMedical Computation - Molecular and Cellular (continued)

BMC Depth (46 units minimum; delete courses not taken)

| Dept | Course | Title | Units | Grade | ✓ if Transfer | Transfer/AP Approval | |
|---|--------|---|-------|--------------------|---------------|----------------------|------|
| | | | | | | Initials | Date |
| Biology Depth (4 courses required) | | | | | | | |
| BIOSCI | 129A | Cellular Dynamics I: Cell Motility and Adhesion | 4 | | | | |
| BIOSCI | 129B | Cellular Dynamics II: Building a Cell | 4 | | | | |
| BIOSCI | 188 | Biochemistry | 5 | | | | |
| or CHEM | 135 | Physical Chemistry | or 3 | | | | |
| or CHEM | 171 | Physical Chemistry | or 3 | | | | |
| BIOSCI | 203 | Advanced Genetics | 4 | | | | |
| or BIOSCI | 118 | Genetics | or 5 | | | | |
| <i>Biology Depth Total</i> | | | 17 | | | | |
| Engineering Depth (see note 2; Be advised, no course may be listed twice on this sheet. No double-counting.) | | | | | | | |
| <i>Programming (1 course required)</i> | | | | | | | |
| CS | 107 | Programming Paradigms | 5 | | | | |
| BMC Core Depth | | | | | | | |
| BMI | 210 | Biomedical Informatics | 3 | | | | |
| or BMI | 214 | Rep. and Algorithms for Comp. Bio. | or 4 | | | | |
| Research (6 units required) | | | | | | | |
| CS/ME | 191W | Research Project (see note 3) | 6 | | | | |
| Simulation Electives (2 courses required: see note 4) | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Informatics Electives (2 courses required: see note 5) | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| General Elective (1 course required: see note 6) | | | | | | | |
| | | | | | | | |
| <i>Engineering Depth Total</i> | | | 14 | | | | |
| <i>BMC Depth Total</i> | | | | (46 units minimum) | | | |

Program Totals

| | | |
|---|--|---------------------------|
| <i>Mathematics and Science</i> | | <i>(41 units minimum)</i> |
| <i>BMC Depth</i> | | <i>(46 units minimum)</i> |
| <i>Engineering (Fundamentals + Depth) Units</i> | | <i>(40 units minimum)</i> |

Program Approvals

Advisor

Printed Name: _____ Date: _____
 Signature: _____

Departmental

Printed Name: _____ Date: _____
 Signature: _____

School of Engineering

Printed Name: _____ Date: _____
 Signature: _____

NOTES (continued from page 1)

- (2) 40 units of engineering courses are required, to be met through the Engineering Fundamentals and BMC Depth courses.
- (3) Fulfills the "Writing in the Major" requirement for Freshman and Transfer students entering Fall 1996 or later. For research outside of CS, ENGR199W (recommended), CS201, CS272, Bio 54, or Bio 55 may be used to fulfill WIM.
- (4) The simulation electives must be chosen from the following: ENGR14, ENGR15, ENGR30, ME33, ME80, ME280, ME281, ME284A, CS223A, CS248, CS273, CS326A, SBIO228, CHEM171.
- (5) The informatics electives must be chosen from the following: CS161, CS145, CS121, CS221, CS147, CS222, CS228, CS229, CS262, BMI211, BMI214, BIOC218, MGTSC252, STAT206, STAT315A, GENE211.
- (6) The additional elective must be chosen from the lists in notes (4) or (5), or from the following: BIO118, BIO133, SBIO228, BIO214, CS262, BMI214, BIOC218, GENE211, GENE344.

Stanford University ♦ School of Engineering
BioMedical Computation - Organs and Organisms Track
2006-2007 Sample Program Sheet

Final version of completed and signed program due to the department no later than one month prior to the last quarter of senior year.

Name: _____
 Local Address: _____

SU ID: _____
 Local Phone: _____
 Email: _____
 Date B.S. expected: _____

Mathematics and Science Requirement (Delete courses not taken)

| Dept | Course | Title | Units | Grade | ✓ if Transfer | Transfer/AP Approval | |
|---------------------------------------|--------|--|-----------|---------------------------|---------------|----------------------|------|
| | | | | | | Initials | Date |
| <i>Mathematics (21 units minimum)</i> | | | | | | | |
| MATH | 41 | Calculus | 5 | | | | |
| MATH | 42 | Calculus | 5 | | | | |
| STAT | 116 | Probability | 5 | | | | |
| CS 103X or CS 103A and 103B | | Discrete Structures (accelerated or regular sequence) | 4 or 6 | | | | |
| Math 51 or Stat 141 | | Advanced Calculus or Biostatistics | 5 or 4 | | | | |
| <i>Mathematics Unit Total</i> | | | | <i>(21 units minimum)</i> | | | |
| <i>Science (17 units minimum)</i> | | | | | | | |
| PHYS | 41 | Mechanics | 4 | | | | |
| CHEM 31A&B or CHEM 31X | | Chemical Principles (regular sequence or accelerated) | 8 or 4 | | | | |
| CHEM | 33 | Structure & Reactivity | 4 | | | | |
| BIOSCI | 41 | Genetics, Biochemistry, and Molecular Biology | 5 | | | | |
| BIOSCI | 42 | Cell Biology and Animal Physiology | 5 | | | | |
| BIOSCI | 43 | Plant Biology, Evolution, and Ecology | 5 | | | | |
| <i>Science Unit Total</i> | | | 31 | <i>(17 units minimum)</i> | | | |
| | | | | <i>(40 units minimum)</i> | | | |

Technology in Society Requirement (1 course required; see UGHB, Fig. 3-3 for approved list)

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| | | | | | | | |
|--|--|--|--|--|--|--|--|

Engineering Fundamentals (2 courses required)

| | | | | | | | |
|---------------------------------------|-----|-------------------------------------|---|--|--|--|--|
| CS | 106 | Programming Abstractions (A&B or X) | 5 | | | | |
| | | Elective (see note 1) | 3 | | | | |
| <i>Engineering Fundamentals Total</i> | | | | | | | |

NOTES

- * This form is available as an Excel file at <http://ughb.stanford.edu/>. The printed form must be signed by the advisor and, if required, by the departmental representative. Changes must be initialed in ink.
 - * All courses listed on this form must be taken for a letter grade if offered by the instructor.
 - * Minimum Combined Grade Point Average for all courses in the major (combined) is 2.0.
 - * Transfer and AP credits in Math, Science, Fundamentals, & TIS must be approved by the SoE Dean's office. Transfer credits in Engineering Depth must be approved by the Advisor. Transfer credit information and petitions are available at <http://ughb.stanford.edu/transfer.html>.
 - * All courses listed on this form must only be included under one category. Delete courses not taken.
- (1) One course required, 3 to 5 units. See Engineering Fundamentals list in School of Engineering Handbook.

program sheet continues on page 2

BioMedical Computation - Organs and Organisms (continued)

BMC Depth (46 units minimum; delete courses not taken)

| Dept | Course | Title | Units | Grade | ✓ if Transfer | Transfer/AP Approval | |
|---|--------|--|-------|-------|---------------|----------------------|--------------------|
| | | | | | | Initials | Date |
| Biology Depth (4 courses required) | | | | | | | |
| BIOSCI | 112 | Human Physiology | 4 | | | | |
| BIOSCI | 188 | Biochemistry | 5 | | | | |
| | | <i>Organs Electives (2 courses required: see note 2)</i> | | | | | |
| | | | | | | | |
| <i>Biology Depth Total</i> | | | | | | | |
| Engineering Depth (see note 3; Be advised, no course may be listed twice on this sheet. No double-counting.) | | | | | | | |
| <i>Programming (1 course required)</i> | | | | | | | |
| CS | 107 | Programming Paradigms | 5 | | | | |
| BMC Core Depth | | | | | | | |
| BMI | 210 | Biomedical Informatics | 3 | | | | |
| or BMI | 214 | Rep. and Algorithms for Comp. Bio. | or 4 | | | | |
| CS/ME | 191 | Research Project (see note 4) | 6 | | | | |
| <i>Simulation Electives (2 courses required: see note 5)</i> | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| <i>Informatics Electives (2 courses required: see note 6)</i> | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| <i>General Elective (1 course required: see note 7)</i> | | | | | | | |
| | | | | | | | |
| <i>Engineering Depth Total</i> | | | 14 | | | | |
| <i>BMC Depth Total</i> | | | | | | | (46 units minimum) |

Program Totals

| | | |
|---|--|---------------------------|
| <i>Mathematics and Science</i> | | <i>(41 units minimum)</i> |
| <i>BMC Depth</i> | | <i>(46 units minimum)</i> |
| <i>Engineering (Fundamentals + Depth) Units</i> | | <i>(40 units minimum)</i> |

Program Approvals

Advisor

Printed Name: _____ Date: _____
 Signature: _____

Departmental

Printed Name: _____ Date: _____
 Signature: _____

School of Engineering

Printed Name: _____ Date: _____
 Signature: _____

NOTES (continued from page 1)

- (2) The Organs electives must be chosen from the following set: BIOSCI112, BIOSCI188, SURG101, BIOSCI158, BIOSCI214, BIOSCI230, BIOSCI283, ME280, ME281, ME84A, DBIO210.
- (3) 40 units of engineering courses are required, to be met through the Engineering Fundamentals and BMC Depth courses.
- (4) Fulfills the "Writing in the Major" requirement for Freshman and Transfer students entering Fall 1996 or later. For research outside of CS, ENGR199W (recommended), CS201, CS272, Bio 54, or Bio 55 may be used to fulfill WIM.
- (5) The simulation electives must be chosen from the following: ENGR14, ENGR15, ENGR30, ME33, ME80, ME280, ME281, ME284A, CS223A, CS248, CS326A, CS273, SBIO228, CHEM171.
- (6) The informatics electives must be chosen from the following: CS161, CS145, CS121, CS211, CS147, CS222, CS228, CS229, CS262, BMI211, BMI214, BIOC218, MGTSC252, STAT206, STAT315A, GENE211.
- (7) The additional elective must be chosen from the lists in notes (4) or (5), or from the following: BIO118, BIO133, SBIO228, BIO214, CS262, BMI214, BIOC218, GENE211, GENE344.

Stanford University ♦ School of Engineering
BioMedical Computation - Simulation Track
2006-2007 Sample Program Sheet

Final version of completed and signed program due to the department no later than one month prior to the last quarter of senior year.

Name: _____
 Local Address: _____

SU ID: _____
 Local Phone: _____
 Email: _____
 Date B.S. expected: _____

Mathematics and Science Requirement (Delete courses not taken)

| Dept | Course | Title | Units | Grade | ✓ if Transfer | Transfer/AP Approval | |
|---------------------------------------|----------|--|-----------|---------------------------|---------------|----------------------|------|
| | | | | | | Initials | Date |
| Mathematics (21 units minimum) | | | | | | | |
| MATH | 41 | Calculus | 5 | | | | |
| MATH | 42 | Calculus | 5 | | | | |
| STAT | 116 | Probability | 5 | | | | |
| CS 103X or CS 103A and 103B | | Discrete Structures (accelerated or regular sequence) | 4 or 6 | | | | |
| MATH | 51 | Advanced Calculus I | 5 | | | | |
| MATH 52 or ENGR 155A | | Advanced Calculus II | 5 | | | | |
| MATH 53 or ENGR 155B | | Advanced Calculus III | 5 | | | | |
| <i>Mathematics Unit Total</i> | | | | <i>(21 units minimum)</i> | | | |
| Science (17 units minimum) | | | | | | | |
| PHYS | 41 | Mechanics | 4 | | | | |
| PHYS | 45 or 43 | Electricity & Magnetism or Optics & Thermodynamics | 3 | | | | |
| CHEM 31A&B or CHEM 31X | | Chemical Principles (regular sequence or accelerated) | 8 or 4 | | | | |
| CHEM | 33 | Structure & Reactivity | 4 | | | | |
| BIOSCI | 41 | Genetics, Biochemistry, and Molecular Biology | 5 | | | | |
| BIOSCI | 42 | Cell Biology and Animal Physiology | 5 | | | | |
| BIOSCI | 43 | Plant Biology, Evolution, and Ecology | 5 | | | | |
| <i>Science Unit Total</i> | | | 34 | <i>(17 units minimum)</i> | | | |
| | | | | <i>(40 units minimum)</i> | | | |

Technology in Society Requirement (1 course required; see UGHB, Fig. 3-3 for approved list)

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| | | | | | | | |
|--|--|--|--|--|--|--|--|

Engineering Fundamentals (2 courses required)

| | | | | | | | |
|---------------------------------------|-----|-------------------------------------|---|--|--|--|--|
| CS | 106 | Programming Abstractions (A&B or X) | 5 | | | | |
| ENGR | 30 | Eng. Thermodynamics | 3 | | | | |
| <i>Engineering Fundamentals Total</i> | | | | | | | |

NOTES

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- * All courses listed on this form must be taken for a letter grade if offered by the instructor.
- * Minimum Combined Grade Point Average for all courses in the major (combined) is 2.0.
- * Transfer and AP credits in Math, Science, Fundamentals, & TIS must be approved by the SoE Dean's office. Transfer credits in Engineering Depth must be approved by the Advisor. Transfer credit information and petitions are available at <http://ughb.stanford.edu/transfer.html>.
- * All courses listed on this form must only be included under one category. Delete courses not taken.

program sheet continues on page 2

BioMedical Computation - Simulation Track (continued)

BMC Depth (46 units minimum; delete courses not taken)

| Dept | Course | Title | Units | Grade | ✓ if Transfer | Transfer/AP Approval | |
|--|--------|------------------------------------|---|---------------------------|---------------|----------------------|------|
| | | | | | | Initials | Date |
| Engineering Depth (see note 1 - Be advised, no course may be listed twice on this sheet. No double-counting.) | | | | | | | |
| <i>Programming (1 course required)</i> | | | | | | | |
| CS | 107 | Programming Paradigms | 5 | | | | |
| BMC Core Depth (see note 2) | | | | | | | |
| BMI | 210 | Biomedical Informatics | 3 | | | | |
| or BMI | 214 | Rep. and Algorithms for Comp. Bio. | or 4 | | | | |
| | | | | | | | |
| Research (6 units required) | | | | | | | |
| CS/ME | 191 | Research Project (see note 3) | 6 | | | | |
| Simulation Electives (2 courses required: see note 4) | | | | | | | |
| | | | | | | | |
| Cellular Electives (3 units required: see note 5) | | | | | | | |
| | | | 3 | | | | |
| Organs Electives (3 units required: see note 6) | | | | | | | |
| | | | 3 | | | | |
| Engineering Depth Total | | | 20 | | | | |
| BMC Depth Total | | | <input style="width: 40px;" type="text"/> | (46 units minimum) | | | |

Program Totals

| | | |
|--|----------------------|--------------------|
| Mathematics and Science | <input type="text"/> | (41 units minimum) |
| BMC Depth | <input type="text"/> | (46 units minimum) |
| Engineering (Fundamentals + Depth) Units | <input type="text"/> | (40 units minimum) |

Program Approvals

Advisor

Printed Name: _____ Date: _____
 Signature: _____

Departmental

Printed Name: _____ Date: _____
 Signature: _____

School of Engineering

Printed Name: _____ Date: _____
 Signature: _____

NOTES (continued from page 1)

- (1) 40 units of engineering courses are required, to be met through the Engineering Fundamentals and BMC Depth courses.
- (2) The simulation core courses must be chosen from: ENGR14, ENGR15, ME33, ME80. Note that different subsets of these courses are required for different continuation courses in the track.
- (3) Fulfills the "Writing in the Major" requirement for Freshman and Transfer students entering Fall 1996 or later. For research outside of CS, ENGR199W (recommended), CS201, CS272, Bio 54, or Bio 55 may be used to fulfill WIM.
- (4) The simulation electives must be chosen from the following: ME280, ME281, ME284A, CS223A, CS248, CS326A, CS273, SBIO228, CHEM171.
- (5) The cellular electives must be chosen from the following set: BIOSCI129A, BIOSCI129B, BIOSCI188, BIOSCI203, BIOSCI118, BIOSCI133, SBIO228, BIOSCI214, CS262, BMI214, BIOSCIC218, GENE211, GENE344.
- (6) The organs electives must be chosen from the following set: BIOSCI112, BIOSCI188, SURG101, BIOSCI158, BIOSCI214, BIOSCI230, BIOSCI283, ME280, ME281, ME284A, DBIO210.

Stanford University ♦ School of Engineering
BioMedical Computation - Informatics Track
2006-2007 Sample Program Sheet

Final version of completed and signed program due to the department no later than one month prior to the last quarter of senior year.

Name: _____
 Local Address: _____

SU ID: _____
 Local Phone: _____
 Email: _____
 Date B.S. expected: _____

Mathematics and Science Requirement (Delete courses not taken)

| Dept | Course | Title | Units | Grade | ✓ if Transfer | Transfer/AP Approval | |
|---------------------------------------|--------|--|-----------|-------|---------------|----------------------|---------------------------|
| | | | | | | Initials | Date |
| Mathematics (21 units minimum) | | | | | | | |
| MATH | 41 | Calculus | 5 | | | | |
| MATH | 42 | Calculus | 5 | | | | |
| STAT | 116 | Theory of Probability | 5 | | | | |
| CS 103X or CS 103A and 103B | | Discrete Structures (accelerated or regular sequence) | 4 or 6 | | | | |
| STAT | 141 | Biostatistics | 4 | | | | |
| | | | | | | | |
| | | <i>Mathematics Unit Total</i> | | | | | <i>(21 units minimum)</i> |
| Science (17 units minimum) | | | | | | | |
| PHYS | 41 | Mechanics | 4 | | | | |
| CHEM 31A&B or CHEM 31X | | Chemical Principles (regular sequence or accelerated) | 8 or 4 | | | | |
| CHEM | 33 | Structure & Reactivity | 4 | | | | |
| BIOSCI | 41 | Genetics, Biochemistry, and Molecular Biology | 5 | | | | |
| BIOSCI | 42 | Cell Biology and Animal Physiology | 5 | | | | |
| BIOSCI | 43 | Plant Biology, Evolution, and Ecology | 5 | | | | |
| | | | | | | | |
| | | <i>Science Unit Total</i> | 31 | | | | <i>(17 units minimum)</i> |
| | | | | | | | <i>(40 units minimum)</i> |

Technology in Society Requirement (1 course required; see UGHB, Fig. 3-3 for approved list)

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| | | | | | | | |
|--|--|--|--|--|--|--|--|

Engineering Fundamentals (2 courses required)

| | | | | | | | |
|----|-----|---------------------------------------|---|--|--|--|--|
| CS | 106 | Programming Abstractions (A&B or X) | 5 | | | | |
| | | Elective (see note 1) | 3 | | | | |
| | | <i>Engineering Fundamentals Total</i> | | | | | |

NOTES

- * This form is available as an Excel file at <http://ughb.stanford.edu/>. The printed form must be signed by the advisor and, if required, by the departmental representative. Changes must be initialed in ink.
 - * All courses listed on this form must be taken for a letter grade if offered by the instructor.
 - * Minimum Combined Grade Point Average for all courses in the major (combined) is 2.0.
 - * Transfer and AP credits in Math, Science, Fundamentals, & TIS must be approved by the SoE Dean's office. Transfer credits in Engineering Depth must be approved by the Advisor. Transfer credit information and petitions are available at <http://ughb.stanford.edu/transfer.html>.
 - * All courses listed on this form must only be included under one category. Delete courses not taken.
- (1) One course required, 3 to 5 units. See Engineering Fundamentals list in School of Engineering Handbook.

program sheet continues on page 2

BioMedical Computation - Informatics Track (continued)

BMC Depth (46 units minimum; delete courses not taken)

| Dept | Course | Title | Units | Grade | ✓ if Transfer | Transfer/AP Approval | |
|---|---------|------------------------------------|---|--------------------|---------------|----------------------|------|
| | | | | | | Initials | Date |
| Engineering Depth (see note 2; Be advised, no course may be listed twice on this sheet. No double-counting.) | | | | | | | |
| <i>Programming (1 course required)</i> | | | | | | | |
| CS | 107 | Programming Paradigms | 5 | | | | |
| <i>BMC Core Depth</i> | | | | | | | |
| BMI | 210 | Biomedical Informatics | 3 | | | | |
| or BMI | 214 | Rep. and Algorithms for Comp. Bio. | or 4 | | | | |
| CS | 145 | Databases | 4 | | | | |
| CS | 161 | Design and Analysis of Algorithms | 4 | | | | |
| CS | 121/221 | Artificial Intelligence | 3 | | | | |
| <i>Research (6 units required)</i> | | | | | | | |
| CS/ME | 191 | Research Project (see note 3) | 6 | | | | |
| <i>Informatics Electives (3 courses required: see note 4)</i> | | | | | | | |
| | | | 3 | | | | |
| | | | 3 | | | | |
| | | | 3 | | | | |
| <i>Cellular Electives (2 courses required: see note 5)</i> | | | | | | | |
| | | | 3 | | | | |
| | | | 3 | | | | |
| <i>Organs Electives (2 courses required: see note 6)</i> | | | | | | | |
| | | | 3 | | | | |
| | | | 3 | | | | |
| <i>Engineering Depth Total</i> | | | 46 | | | | |
| <i>BMC Depth Total</i> | | | <input style="width: 50px;" type="text"/> | (46 units minimum) | | | |

Program Totals

| | | |
|--|--|--------------------|
| Mathematics and Science | | (41 units minimum) |
| BMC Depth | | (46 units minimum) |
| Engineering (Fundamentals + Depth) Units | | (40 units minimum) |

Program Approvals

Advisor

Printed Name: _____ Date: _____
 Signature: _____

Departmental

Printed Name: _____ Date: _____
 Signature: _____

School of Engineering

Printed Name: _____ Date: _____
 Signature: _____

NOTES (continued from page 1)

- (2) 40 units of engineering courses are required, to be met through the Engineering Fundamentals and BMC Depth courses.
- (3) Fulfills the "Writing in the Major" requirement for Freshman and Transfer students entering Fall 1996 or later. For research outside of CS, ENGR199W (recommended), CS201, CS272, Bio 54, or Bio 55 may be used to fulfill WIM.
- (4) The informatics electives must be chosen from the following: CS147, CS222, CS228, CS229, CS262, BMI211, BMI214, BIOSCI218, MGTSC252, STAT206, STAT315A, GENE211.
- (5) The cellular electives must be chosen from the following set: BIOSCI129A, BIOSCI129B, BIOSCI188, BIOSCI203, BIOSCI118, BIOSCI133, SBIO228, BIOSCI214, CS262, CS273, BMI214, BIOSCIC218, GENE211, GENE344.
- (6) The organs electives must be chosen from the following set: BIOSCI112, BIO188, SURG101, BIOSCI158, BIOSCI214, BIOSCI230, BIOSCI283, ME280, ME281, ME284A, DBIO210.