

ESSEX COUNTY COLLEGE
TRANSFER ADVISEMENT EQUIVALENCY SHEET

COMPUTER SCIENCE AS

COMPUTER SCIENCE BS

ECC Courses

Kean University Courses

General Education Requirements

Communications

| | | | |
|---------|-----------------|-------|---|
| ENG 101 | College Comp I | _____ | 3 |
| ENG 102 | College Comp II | _____ | 3 |

Social Science

| | | | |
|---------|--------------------|-------|---|
| PSY 101 | Gen Psychology I | _____ | 3 |
| SOC 101 | Intro to Sociology | _____ | 3 |

Lab Science/ Math

| | | | |
|---------|-------------------|-------|---|
| PHY 103 | General Physics I | _____ | 4 |
| MTH 121 | Calc. w/ Geom. I | _____ | 4 |
| MTH 122 | Calc. w/ Geom. II | _____ | 4 |

Physical Ed/Health

| | | |
|--------------------|-------|-----|
| HLT 101 or PHE 119 | _____ | 2-3 |
|--------------------|-------|-----|

Humanities

| | | | |
|------------------------|-------------------|-------|---|
| HST 111 or HST 112 | _____ | 3 | |
| ENG 215 | Modern Lit. Mast. | _____ | 3 |
| ART or MUS Requirement | _____ | 3 | |

Major Requirements

| | | | |
|---------|-------------------|-------|---|
| CSC 121 | Comp. Science I | _____ | 4 |
| CSC 122 | Comp. Science II | _____ | 4 |
| CSC 221 | Comp. Sys & Arch | _____ | 4 |
| CSC 225 | Data Structures | _____ | 4 |
| CSC 228 | Operating System | _____ | 4 |
| CSC 235 | Advanced Program. | _____ | 4 |

Additional Requirements

| | | | |
|---------|----------------------|-------|---|
| MTH 136 | Discrete Math | _____ | 3 |
| MTH 239 | Intro to Linear Alg. | _____ | 3 |
| PHY 104 | Gen. Physics II | _____ | 4 |

General Education Requirements

Communications

| | | |
|----------|-----------------|---|
| ENG 1030 | College Comp | 3 |
| GE 2024 | Research & Tech | 3 |

Social Science

| | | |
|----------|---------------------|---|
| PSY 1000 | Gen Psychology | 3 |
| SOC 1000 | Intro. To Sociology | 3 |

Lab Science/ Math

| | | |
|-----------|-----------------|---|
| PHYS 2091 | General Physics | 4 |
| MATH 2411 | Calculus I | 3 |
| MATH 2412 | Calculus II | 3 |

Physical Ed/Health

| | |
|--------------------------------|-----|
| ID 1225 or Phys. Ed Activities | 2-3 |
|--------------------------------|-----|

Humanities

| | | |
|---------------------|-------------------------|---|
| HIST 1000 | Hst in Civil Soc. Amer. | 3 |
| ENG 2403 | World Literature | 3 |
| Humanities Elective | 3 | |

Major Requirements

| | | |
|---|---------------------------|---|
| CPS 1231 | Fund. Of Comp. Science | 4 |
| CPS 2231 | Comp. Org. & Prog. Lang | 4 |
| CPS 2390 | Org. Architecture | 3 |
| CPS 2232 | Data Structure & Alg Anal | 4 |
| CPS 3250 | Comp. Operating Systems | 3 |
| CPS 3500 | Major Elective | 3 |
| Free Electives (Excess Cr CSC 225, 228 & 235) | 3 | |

Additional Requirements

| | | |
|----------------------------|----------------------|---|
| MATH 2110 | Discrete Structures | 3 |
| MATH 2995 | Matrix & Linear Alg. | 3 |
| Free Elective | 4 | |
| Excess Credit MTH 121& 122 | 2 | |

Total Credits Required 69-70

Total Transferable Credits 69-70

NOTES/COMMENTS

A minimum GPA of 2.6 is required for acceptance into the program.

ESSEX COUNTY COLLEGE
TRANSFER ADVISEMENT EQUIVALENCY SHEET

COMPUTER SCIENCE AS

COMPUTER SCIENCE BS

ECC Courses

Montclair State University Courses

General Education Requirements

Communications

| | | | |
|---------|-----------------|-------|---|
| ENG 101 | College Comp I | _____ | 3 |
| ENG 102 | College Comp II | _____ | 3 |

Social Science

| | | | |
|--------------------|------------------|-------|---|
| PSY 101 | Gen Psychology I | _____ | 3 |
| SOC 101 or ANT 101 | | _____ | 3 |

Lab Science/ Math

| | | | |
|---------|-------------------|-------|---|
| PHY 103 | General Physics I | _____ | 4 |
| MTH 121 | Calc. w/ Geom. I | _____ | 4 |
| MTH 122 | Calc. w/ Geom. II | _____ | 4 |

Physical Ed/Health

| | | | |
|---------|--------------------------|-------|---|
| PHE 119 | Concepts in Physical Ed. | _____ | 2 |
|---------|--------------------------|-------|---|

Humanities

| | | | |
|---------------------------|-------------------|-------|---|
| HST 101, 102, 111, 112 or | | _____ | 3 |
| ENG 215 | Modern Lit. Mast. | _____ | 3 |
| ART or MUS Requirement | | _____ | 3 |

Major Requirements

| | | | |
|---------|------------------|-------|---|
| CSC 121 | Comp. Science I | _____ | 4 |
| CSC 122 | Comp. Science II | _____ | 4 |
| CSC 221 | Comp. Sys & Arch | _____ | 4 |
| CSC 225 | Data Structures | _____ | 4 |
| CSC 228 | Operating System | _____ | 4 |
| CSC 231 | Database Design | _____ | 4 |

Additional Requirements

| | | | |
|---------|----------------------|-------|---|
| MTH 136 | Discrete Math | _____ | 3 |
| MTH 239 | Intro to Linear Alg. | _____ | 3 |
| PHY 104 | Gen. Physics II | _____ | 4 |

General Education Requirements

Communications

| | | | |
|----------|--------------------|-------|---|
| ENWR 105 | College Writing I | _____ | 3 |
| ENWR 106 | College Writing II | _____ | 3 |

Social Science

| | | | |
|----------|----------------------------|-------|---|
| PSYC 101 | General Psychology | _____ | 3 |
| | Social Science Requirement | _____ | 3 |

Lab Science/ Math

| | | | |
|----------|----------------------|-------|---|
| PHYS 191 | University Physics I | _____ | 4 |
| MATH 122 | Calculus I | _____ | 4 |
| MATH 221 | Calculus II | _____ | 4 |

Physical Ed/Health

| | | |
|--------------------------------|-------|-----|
| Physical Education Requirement | _____ | 2-3 |
|--------------------------------|-------|-----|

Humanities

| | | | |
|---------------------|-------------------------|-------|---|
| HIST 1000 | Hst in Civil Soc. Amer. | _____ | 3 |
| ENG 2403 | World Literature | _____ | 3 |
| Humanities Elective | | _____ | 3 |

Major Requirements

| | | | |
|---|-------------------------------|-------|---|
| CMPT 183 | Found. Of Comp. Science I | _____ | 3 |
| CMPT 184 | Found. Of Comp. Science II | _____ | 3 |
| CMPT 280 | Assembly Lang. & Architecture | _____ | 3 |
| CMPT 285 | Data Structure & Alg Anal | _____ | 4 |
| Major Elective | | _____ | 3 |
| CMPT 381 | Major Elective | _____ | 3 |
| Free Electives (Excess Cr CSC 225, 228 & 235) | | _____ | 3 |

Additional Requirements

| | | | |
|----------|----------------------------|-------|---|
| CMPT 285 | Discrete Math Structures | _____ | 3 |
| MATH 335 | Elements of Linear Algebra | _____ | 3 |
| PHYS 192 | University Physics II | _____ | 4 |

Total Credits Required 69-70

Total Transferable Credits 69-70

NOTES/COMMENTS

A minimum GPA of 3.0 is required for acceptance into the program.

ESSEX COUNTY COLLEGE
TRANSFER ADVISEMENT EQUIVALENCY SHEET

COMPUTER SCIENCE AS

COMPUTER SCIENCE BS

ECC Courses

NJIT Courses

General Education Requirements

Communications

| | | | |
|---------|-------------------|-------|---|
| ENG 101 | College Comp I | _____ | 3 |
| ENG 105 | Technical Writing | _____ | 3 |

Social Science

| | | | |
|---------|--------------------|-------|---|
| PSY 101 | Gen Psychology I | _____ | 3 |
| SOC 101 | Intro to Sociology | _____ | 3 |

Lab Science/ Math

| | | | |
|---------|-------------------|-------|---|
| PHY 103 | General Physics I | _____ | 4 |
| MTH 121 | Calc. w/ Geom. I | _____ | 4 |
| MTH 122 | Calc. w/ Geom. II | _____ | 4 |

Physical Ed/Health

| | | | |
|---------|----------------------|-------|---|
| PHE 119 | Concepts of Phys Ed. | _____ | 2 |
|---------|----------------------|-------|---|

Humanities

| | | | |
|--------------------|---------------------|-------|---|
| Any History | | _____ | 3 |
| ENG 2xx | Literature Elective | _____ | 3 |
| ART 101 or MUS 108 | | _____ | 3 |

Major Requirements

| | | | |
|-------------|----------------------|-------|---|
| CSC 121/122 | Comp. Science I & II | _____ | 8 |
| CSC 221 | Comp. Sys & Arch | _____ | 4 |
| CSC 225 | Data Structures | _____ | 4 |
| CSC 228 | Operating System | _____ | 4 |
| CSC 231 | Database Design | _____ | 4 |

Additional Requirements

| | | | |
|---------|----------------------|-------|---|
| MTH 136 | Discrete Math | _____ | 3 |
| MTH 239 | Intro to Linear Alg. | _____ | 3 |
| PHY 104 | Gen. Physics II | _____ | 4 |

General Education Requirements

Communications

| | | |
|---------|--------------------------------|---|
| HSS 101 | English: Writing, Speak, Think | 3 |
| ENG 352 | Technical Writing | 3 |

Social Science

| | |
|-------------------------|---|
| Social Science Elective | 3 |
| Social Science Elective | 3 |

Lab Science/ Math

| | | |
|--------------|-----------------|---|
| PHYS 111/11A | Physics I w/Lab | 4 |
| MATH 111 | Calculus I | 4 |
| MATH 112 | Calculus II | 3 |

Physical Ed/Health

| | |
|--------------------|---|
| Physical Education | 2 |
|--------------------|---|

Humanities

| | | |
|----------------------------|------------------|---|
| HSS 2XX | Cultural History | 3 |
| HSS 21X | Cultural History | 3 |
| Lit/Hist/Phil/STS Elective | 3 | |

Major Requirements

| | | |
|---------|---------------------------------|---|
| CIS 113 | Intro to Comp. Science I | 3 |
| CIS 251 | Computer Organization | 3 |
| CIS 114 | Intro to Comp. Science II | 3 |
| CIS 332 | Principles of Operating Systems | 3 |
| CIS 431 | Database Sys. Des & Mgmt | 3 |

Additional Requirements

| | | |
|---------------|----------------------|---|
| MATH 226 | Discrete Analysis | 3 |
| MATH 337 | Matrix & Linear Alg. | 3 |
| Free Elective | 4 | |

Total Credits Required 69-70

Total Transferable Credits 69-70

NOTES/COMMENTS

Students may take ECO 101 at ECC to satisfy the SS 201 requirement NJIT or BIO 103 or CHM 103 may be taken to fulfill the Science requirement at NJIT.

ESSEX COUNTY COLLEGE
TRANSFER ADVISEMENT EQUIVALENCY SHEET

COMPUTER SCIENCE AS

COMPUTER SCIENCE BS

ECC Courses

Rutgers-Newark Courses

General Education Requirements

Communications

ENG 101 College Composition I ** _____ 3
ENG 102 College Composition II** _____ 3

Social Science

ANT 101, POL 104, SOC 101 or PSY 101 _____ 3
Any ANT, POL, PSY or SOC _____ 3

Lab Science/ Math

PHY 103 General Physics I _____ 4
MTH 121 Calc. w/ Geom. I _____ 4
MTH 122 Calc. w/ Geom. II _____ 4

Physical Ed/Health

HLT 101 Healthful Living _____ 3

Humanities

ANY History _____ 3
ANY Literature _____ 3
Any ART or MUS _____ 3

Major Requirements

CSC 121 Comp. Science I _____ 4
CSC 122 Comp. Science II _____ 4
CSC 221 Comp. Sys & Arch _____ 4
CSC 225 Data Structures _____ 4
CSC 228 Operating System _____ 4
CSC 231 Advanced Program. _____ 4

Additional Requirements

MTH 136 Discrete Math _____ 3
MTH 239 Intro to Linear Alg. _____ 3
PHY 104 Gen. Physics II _____ 4

Total Credits Required 69-70

General Education Requirements

Communications

350: 101 English Composition I 3
350: 101 English Composition II 3

Social Science

Social Science Requirement 3
Social Science Requirement 3

Lab Science/ Math

Lab Science Requirement 4
MATH 2411 Calculus I 3
MATH 2412 Calculus II 3

Physical Ed/Health

Free Elective 3

Humanities

History Requirement 3
Literature Requirement 3
Fine Arts Requirement 3

Major Requirements

198: 101 Computer Science & Prog I 3
198: 102 Computer Science & Prog II 3
198: 251 Org. Architecture (NJIT) 3
198: 335 Data Structure & Alg Anal 4
198: 332 Princ of Operating Systems 3
CIS 431 Major Elective (NJIT)

Additional Requirements

640: 237 Discrete Structures 3
640: 251 Linear Alg. 3
Lab Science Requirement 4

Total Transferable Credits 65

NOTES/COMMENTS

***These courses require a "B" or better to transfer as an exact equivalent.*