

ESSEX COUNTY COLLEGE
TRANSFER ADVISEMENT EQUIVALENCY SHEET

ENGINEERING

AS

BIOMEDICAL ENGINEERING

BS

ECC Courses

NJIT Equivalent Courses

General Education Requirements

Communications

ENG 101 College Comp I _____ 3
ENG 105 Technical writing _____ 3

Social Science

ANT 101, PSY 101, SOC 101 or POL 104 _____ 3
ECO 101 Principles of Economics _____ 3

Lab Science/ Math

CHM 103 General Chemistry I _____ 4
MTH 121 Calculus w/ Geometry I _____ 4
MTH 122 Calculus w/ Geometry II _____ 4

Physical Ed/Health

PHE 119 Concepts in Physical Ed _____ 2

Humanities

HST XXX History Elective _____ 3
ENG 2XX Literature Elective _____ 3
ART 101 Art History _____ 3

Major Requirements

ENR 103 Engineering Graphic _____ 2
ENR 105 Applied CAD _____ 2
BIO 103 General Biology I _____ 4
ENR 211 Engineering Mechanics I _____ 3
MTH 239 Intro to Linear Algebra _____ 3

Additional Requirements

CSC 112 Comp. Prog. for Engr & Tech _____ 3
CHM 104 General Chemistry II _____ 4
MTH 221 Calculus w/Geometry III _____ 4
MTH 222 Differential Equations _____ 4
PHY 103 General Physics I/Lab _____ 4
PHY 104 General Physics II/Lab _____ 4

General Education Requirements

Communications

HSS 101 Writing Speaking _____ 3
ENG 352 Technical writing _____ 3

Social Science

Social Science Requirement _____ 3
SS 201 Economics _____ 3

Lab Science/ Math

CHEM 125 General Chemistry I _____ 4
MATH 111 Calculus I _____ 4
MATH 112 Calculus II _____ 4

Physical Ed/Health

Phys. Ed GUR Elective _____ 2

Humanities

HSS 21X Cultural History _____ 3
HSS 21X Cultural History _____ 3
Lit/Hist/Phil/STS Elective _____ 3

Major Requirements

Does Not Transfer
EG 101 Engineering Graphics _____ 2
R120: 101 General Biology I _____ 4
MECH 234 Engineering Mechanics _____ 3
2MATH 337 Linear Algebra _____ 3

Additional Requirement

CIS 101 Comp. Prog. & Prob Solving _____ 2
CHEM 126/124 General Chemistry II _____ 4
MATH 211 Calculus III _____ 4
MATH 222 Differential Equations _____ 4
PHY 111/111A General Physics I/Lab _____ 4
PHY 121/121A General Physics II/Lab _____ 4

Total Credits Required

69-75

Total Transferable Credits

69-72

NOTES/COMMENTS

Students may take BME 301 or BME 302 via cross registration to satisfy ECC graduation requirements. All cross registration course are subject to departmental approval.

ESSEX COUNTY COLLEGE
TRANSFER ADVISEMENT EQUIVALENCY SHEET

ENGINEERING AS

CHEMICAL ENGINEERING BS

ECC Courses

NJIT Equivalent Courses

General Education Requirements

Communications

ENG 101 College Comp I _____ 3
ENG 105 Technical writing _____ 3

Social Science

ANT 101, PSY 101, SOC 101 or POL 104 _____ 3
ECO 101 Principles of Economics _____ 3

Lab Science/ Math

CHM 103 General Chemistry I _____ 4
MTH 121 Calculus w/ Geometry I _____ 4
MTH 122 Calculus w/ Geometry II _____ 4

Physical Ed/Health

PHE 119 Concepts in Physical Ed _____ 2

Humanities

HST XXX History Elective _____ 3
ENG 2XX Literature Elective _____ 3
ART 101 Art History _____ 3

Major Requirements

ENR 103 Engineering Graphic _____ 2
ENR 105 Applied CAD _____ 2
CHM 203 Organic Chemistry I _____ 4
CHM 204 Organic Chemistry II _____ 4

Additional Requirements

CSC 112 Comp. Prog. for Engr & Tech _____ 3
CHM 104 General Chemistry II _____ 4
MTH 221 Calculus w/Geometry III _____ 4
MTH 222 Differential Equations _____ 4
PHY 103 General Physics I/Lab _____ 4
PHY 104 General Physics II/Lab _____ 4

General Education Requirements

Communications

HSS 101 Writing Speaking _____ 3
ENG 352 Technical writing _____ 3

Social Science

Social Science Requirement _____ 3
SS 201 Economics _____ 3

Lab Science/ Math

CHEM 125 General Chemistry I _____ 4
MATH 111 Calculus I _____ 4
MATH 112 Calculus II _____ 4

Physical Ed/Health

Phys. Ed GUR Elective _____ 2

Humanities

HSS 21X Cultural History _____ 3
HSS 21X Cultural History _____ 3
Lit/Hist/Phil/STS Elective _____ 3

Major Requirements

Does Not Transfer
EG 101 Engineering Graphics _____ 2
CHEM 243 Organic Chemistry I _____ 3
CHEM 244/A Organic Chemistry II w/Lab _____ 4

Additional Requirements

CIS 101 Comp. Prog. & Prob Solving _____ 2
CHEM 126/124 General Chemistry II _____ 4
MATH 211 Calculus III _____ 4
MATH 222 Differential Equations _____ 4
PHY 111/111A General Physics I/Lab _____ 4
PHY 121/121A General Physics II/Lab _____ 4

Total Credits Required 69-75

Total Transferable Credits 69-72

NOTES/COMMENTS

Students may take ChE 221, Chem 221, Chem 231, ChE 232, or Chem 235 via cross registration to satisfy ECC graduation requirements. All cross registration course are subject to departmental approval.

ESSEX COUNTY COLLEGE
TRANSFER ADVISEMENT EQUIVALENCY SHEET

ENGINEERING AS

CIVIL ENGINEERING BS

ECC Courses

NJIT Equivalent Courses

General Education Requirements

Communications

ENG 101 College Comp I _____ 3
ENG 105 Technical writing _____ 3

Social Science

ANT 101, PSY 101, SOC 101 or POL 104 _____ 3
ECO 101 Principles of Economics _____ 3

Lab Science/ Math

CHM 103 General Chemistry I _____ 4
MTH 121 Calculus w/ Geometry I _____ 4
MTH 122 Calculus w/ Geometry II _____ 4

Physical Ed/Health

PHE 119 Concepts in Physical Ed _____ 2

Humanities

HST XXX History Elective _____ 3
ENG 2XX Literature Elective _____ 3
ART 101 Art History _____ 3

Major Requirements

ENR 103 Engineering Graphic _____ 2
ENR 105 Applied CAD _____ 2
ENR 211 Engr. Mechanics I: Statics _____ 3
ENR 212 Engr. Mechanics II: Dynamics _____ 3
ENR 220 Mechanics of Materials _____ 4

Additional Requirements

CSC 112 Comp. Prog. for Engr & Tech _____ 3
CHM 104 General Chemistry II _____ 4
MTH 221 Calculus w/Geometry III _____ 4
MTH 222 Differential Equations _____ 4
PHY 103 General Physics I/Lab _____ 4
PHY 104 General Physics II/Lab _____ 4

General Education Requirements

Communications

HSS 101 Writing Speaking _____ 3
ENG 352 Technical writing _____ 3

Social Science

Social Science Requirement _____ 3
SS 201 Economics _____ 3

Lab Science/ Math

CHEM 125 General Chemistry I _____ 4
MATH 111 Calculus I _____ 4
MATH 112 Calculus II _____ 4

Physical Ed/Health

Phys. Ed GUR Elective _____ 2

Humanities

HSS 21X Cultural History _____ 3
HSS 21X Cultural History _____ 3
Lit/Hist/Phil/STS Elective _____ 3

Major Requirements

Does Not Transfer
EG 101 Engineering Graphics _____ 2
MECH 234 Engineering Mechanics _____ 2
MECH 236 Dynamics _____ 2
MECH 237/A Strengths of Materials _____ 4

Additional Requirements

CIS 101 Comp. Prog. & Prob Solving _____ 2
CHEM 126/124 General Chemistry II _____ 4
MATH 211 Calculus III A _____ 4
MATH 222 Differential Equations _____ 4
PHY 111/111A General Physics I/Lab _____ 4
PHY 121/121A General Physics II/Lab _____ 4

Total Credits Required 69-75

Total Transferable Credits 69-72

NOTES/COMMENTS

Students may take CE 200/200A, CE 210 or CE 260 via cross registration to satisfy ECC graduation requirements. All cross registration course are subject to departmental approval.

ESSEX COUNTY COLLEGE
TRANSFER ADVISEMENT EQUIVALENCY SHEET

ENGINEERING AS

COMPUTER ENGINEERING BS

ECC Courses

NJIT Equivalent Courses

General Education Requirements

Communications

ENG 101 College Comp I _____ 3
ENG 105 Technical writing _____ 3

Social Science

ANT 101, PSY 101, SOC 101 or POL 104 _____ 3
ECO 101 Principles of Economics _____ 3

Lab Science/ Math

CHM 103 General Chemistry I _____ 4
MTH 121 Calculus w/ Geometry I _____ 4
MTH 122 Calculus w/ Geometry II _____ 4

Physical Ed/Health

PHE 119 Concepts in Physical Ed _____ 2

Humanities

HST XXX History Elective _____ 3
ENG 2XX Literature Elective _____ 3
ART 101 Art History _____ 3

Major Requirements

ENR 103 Engineering Graphic _____ 2
ENR 105 Applied CAD _____ 2
ELC 230 Circuits & Systems _____ 3
NJIT See Footnote _____ 4
NJIT See Footnote _____ 4

Additional Requirements

CSC 121 Comouter Science I _____ 3
CSC 225 Data Structures II _____ 4
MTH 221 Calculus w/Geometry III _____ 4
MTH 222 Differential Equations _____ 4
PHY 104 General Physics II/Lab _____ 4
PHY 103 General Physics I/Lab _____ 4

General Education Requirements

Communications

HSS 101 Writing Speaking _____ 3
ENG 352 Technical writing _____ 3

Social Science

Social Science Requirement _____ 3
SS 201 Economics _____ 3

Lab Science/ Math

CHEM 125 General Chemistry I _____ 4
MATH 111 Calculus I _____ 4
MATH 112 Calculus II _____ 4

Physical Ed/Health

Phys. Ed GUR Elective _____ 2

Humanities

HSS 21X Cultural History _____ 3
HSS 21X Cultural History _____ 3
Lit/Hist/Phil/STS Elective _____ 3

Major Requirements

Does Not Transfer
EG 101 Engineering Graphics _____ 2
ECE 231 Circuits & Systems I _____ 3
ECE 251 Digital Design _____ 3
ECR 271 Digital Electronics _____ 3

Additional Requirements

CIS 113 Intro to Computer Science _____ 2
CIS 114 Intro to Computer Science II _____ 4
MATH 213 Calculus III B _____ 4
MATH 222 Differential Equations _____ 4
PHY 111/111A General Physics I/Lab _____ 4
PHY 121/121A General Physics II/Lab _____ 4

Total Credits Required 69-75

Total Transferable Credits 69-72

NOTES/COMMENTS

Students may take ECE 252 or ECE 232 via cross registration to satisfy ECC graduation requirements. All cross registration course are subject to departmental approval.

ESSEX COUNTY COLLEGE
TRANSFER ADVISEMENT EQUIVALENCY SHEET

ENGINEERING AS

ELECTRICAL ENGINEERING BS

ECC Courses

NJIT Equivalent Courses

General Education Requirements

Communications

ENG 101 College Comp I _____ 3
ENG 105 Technical writing _____ 3

Social Science

ANT 101, PSY 101, SOC 101 or POL 104 _____ 3
ECO 101 Principles of Economics _____ 3

Lab Science/ Math

CHM 103 General Chemistry I _____ 4
MTH 113 College Algebra / Trig _____ 4
MTH 122 Calculus w/ Geometry II _____ 4

Physical Ed/Health

PHE 119 Concepts in Physical Ed _____ 2

Humanities

HST XXX History Elective _____ 3
ENG 2XX Literature Elective _____ 3
ART 101 Art History _____ 3

Major Requirements

ENR 103 Engineering Graphic _____ 2
ENR 105 Applied CAD _____ 2
ELC 230 Circuits & Systems _____ 3
NJIT See Footnote _____ 4
NJIT See Footnote _____ 4

Additional Requirements

CSC 121/122 Computer Science I/II _____ 8
CSC 225 Data Structures II _____ 4
MTH 221 Calculus w/Geometry III _____ 4
MTH 222 Differential Equations _____ 4
PHY 104 General Physics II/Lab _____ 4
PHY 103 General Physics I/Lab _____ 4

Total Credits Required 69-75

General Education Requirements

Communications

HSS 101 Writing Speaking _____ 3
ENG 352 Technical writing _____ 3

Social Science

Social Science Requirement _____ 3
SS 201 Economics _____ 3

Lab Science/ Math

CHEM 125 General Chemistry I _____ 4
MATH 111 Calculus I _____ 4
MATH 112 Calculus II _____ 4

Physical Ed/Health

Phys. Ed GUR Elective _____ 2

Humanities

HSS 21X Cultural History _____ 3
HSS 21X Cultural History _____ 3
Lit/Hist/Phil/STS Elective _____ 3

Major Requirements

Does Not Transfer
EG 101 Engineering Graphics _____ 2
ECE 231 Circuits & Systems I _____ 3
ECE 251 Digital Design _____ 3
ECE 271 Digital Electronics _____ 3

Additional Requirements

CIS 113 Intro to Computer Science _____ 3
CIS 114 Intro to Computer Science II _____ 3
MATH 213 Calculus III B _____ 4
MATH 222 Differential Equations _____ 4
PHY 111/111A General Physics I/Lab _____ 4
PHY 121/121A General Physics II/Lab _____ 4

Total Transferable Credits 69-72

NOTES/COMMENTS

Students may take ECE 252 or ECE 232 via cross registration to satisfy ECC graduation requirements. All cross registration course are subject to departmental approval.

ESSEX COUNTY COLLEGE
TRANSFER ADVISEMENT EQUIVALENCY SHEET

ENGINEERING

AS

INDUSTRIAL ENGINEERING

BS

ECC Courses

NJIT Equivalent Courses

General Education Requirements

Communications

ENG 101	College Comp I	_____	3
ENG 105	Technical writing	_____	3

Social Science

ANT 101, PSY 101, SOC 101 or POL 104	_____	3
ECO 101 Principles of Economics		3

Lab Science/ Math

CHM 103	General Chemistry I	_____	4
MTH 121	Calculus w/ Geometry I	_____	4
MTH 122	Calculus w/ Geometry II	_____	4

Physical Ed/Health

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

Humanities

HST XXX	History Elective	_____	3
ENG 2XX	Literature Elective	_____	3
ART 101	Art History	_____	3

Major Requirements

ENR 103	Engineering Graphic	_____	2
ENR 105	Applied CAD	_____	2
ENR 211	Engr. Mechanics I: Statics	_____	3
ENR 212	Engr. Mechanics II: Dynamics	_____	3
ENR 220	Mechanics of Materials	_____	4

Additional Requirements

CSC 112	Comp. Prog. for Engr & Tech	_____	3
CHM 104	General Chemistry II	_____	4
MTH 221	Calculus w/Geometry III	_____	4
MTH 222	Differential Equations	_____	4
PHY 104	General Physics II/Lab	_____	4
PHY 103	General Physics I/Lab	_____	4

General Education Requirements

Communications

HSS 101	Writing Speaking	_____	3
ENG 352	Technical writing	_____	3

Social Science

Social Science Requirement	3
SS 201 Economics	3

Lab Science/ Math

CHEM 125	General Chemistry I	_____	4
MATH 111	Calculus I	_____	4
MATH 112	Calculus II	_____	4

Physical Ed/Health

Phys. Ed GUR Elective	_____	2
-----------------------	-------	---

Humanities

HSS 21X	Cultural History	3
HSS 21X	Cultural History	3
Lit/Hist/Phil/STS Elective		3

Major Requirements

Does Not Transfer			
EG 101	Engineering Graphics	_____	2
MECH 234	Engineering Mechanics	_____	2
MECH 236	Dynamics	_____	2
MECH 237/A	Strengths of Materials	_____	4

Additional Requirements

CIS 101	Comp. Prog. & Prob Solving	_____	2
CHEM 126/124	General Chemistry II	_____	4
MATH 211	Calculus III A	_____	4
MATH 222	Differential Equations	_____	4
PHY 111/111A	General Physics I/Lab	_____	4
PHY 121/121A	General Physics II/Lab	_____	4

Total Credits Required

69-75

Total Transferable Credits

69-72

NOTES/COMMENTS

Students may take IE 203 or IE 224 via cross registration to satisfy ECC graduation requirements. All cross registration course are subject to departmental approval.

ESSEX COUNTY COLLEGE
TRANSFER ADVISEMENT EQUIVALENCY SHEET

ENGINEERING

AS

MECHANICAL ENGINEERING

BS

ECC Courses

NJIT Equivalent Courses

General Education Requirements

Communications

ENG 101	College Comp I	_____	3
ENG 105	Technical writing	_____	3

Social Science

ANT 101, PSY 101, SOC 101 or POL 104	_____	3
ECO 101 Principles of Economics	_____	3

Lab Science/ Math

CHM 103	General Chemistry I	_____	4
MTH 121	Calculus w/ Geometry I	_____	4
MTH 122	Calculus w/ Geometry II	_____	4

Physical Ed/Health

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

Humanities

HST XXX	History Elective	_____	3
ENG 2XX	Literature Elective	_____	3
ART 101	Art History	_____	3

Major Requirements

ENR 103	Engineering Graphic	_____	2
ENR 105	Applied CAD	_____	2
ENR 211	Engr. Mechanics I: Statics	_____	3
ENR 212	Engr. Mechanics II: Dynamics	_____	3
ENR 220	Mechanics of Materials	_____	4

Additional Requirements

CSC 112	Comp. Prog. for Engr & Tech	_____	3
CHM 104	General Chemistry II	_____	4
MTH 221	Calculus w/Geometry III	_____	4
MTH 222	Differential Equations	_____	4
PHY 104	General Physics II/Lab	_____	4
PHY 103	General Physics I/Lab	_____	4

General Education Requirements

Communications

HSS 101	Writing Speaking	_____	3
ENG 352	Technical writing	_____	3

Social Science

Social Science Requirement	3
SS 201 Economics	3

Lab Science/ Math

CHEM 125	General Chemistry I	_____	4
MATH 111	Calculus I	_____	4
MATH 112	Calculus II	_____	4

Physical Ed/Health

Phys. Ed GUR Elective	_____	2
-----------------------	-------	---

Humanities

HSS 21X	Cultural History	3
HSS 21X	Cultural History	3
Lit/Hist/Phil/STS Elective		3

Major Requirements

Does Not Transfer			
EG 101	Engineering Graphics	_____	2
MECH 234	Engineering Mechanics	_____	2
MECH 236	Dynamics	_____	2
MECH 237/A	Strengths of Materials	_____	4

Additional Requirements

CIS 101	Comp. Prog. & Prob Solving	_____	2
CHEM 126/124	General Chemistry II	_____	4
MATH 211	Calculus III A	_____	4
MATH 222	Differential Equations	_____	4
PHY 111/111A	General Physics I/Lab	_____	4
PHY 121/121A	General Physics II/Lab	_____	4

Total Credits Required

69-75

Total Transferable Credits

69-72

NOTES/COMMENTS

Students may take ME 215/215A or ME 231 via cross registration to satisfy ECC graduation requirements. All cross registration course are subject to departmental approval.

ESSEX COUNTY COLLEGE
TRANSFER ADVISEMENT EQUIVALENCY SHEET

HUMAN & SOCIAL SERVICES AAS

SOCIAL WORK BSW

ECC Course

Rutgers University Course Equivalent

General Education Requirements

Communications

ENG 101 College Comp I ~ _____ 3
ENG 102 College Comp II ~ _____ 3

Social Science

PSY 101 General Psychology _____ 3
SOC 111 Helper Theory* _____ 3

Lab Science/ Math

MTH 100 Intro. to College Math ~ _____ 4

Physical Ed/Health

HLT 101 Healthful Living _____ 3

Humanities

Any History _____ 3

Major Requirements

PSY 209 Abnormal Psychology _____ 3
PSY 250 Theory and Practice Coun _____ 3
PSY 251 Counseling & Treatment _____ 3
SOC 121 Social Serv. Plcy & Proc* _____ 3
SOC 207 Understanding Death _____ 3
SOC 228 Human & Soc. Serv. Fldwk I** _____ 3
SOC 229 Internship Seminar I** _____ 3
SOC 230 Human & Soc. Serv. Fldwk II** _____ 3
SOC 231 Internship Seminar II** _____ 3
SOC 250 Alcohol & Drug Use _____ 3

Additional Requirements

SOC 108 Social Problems* _____ 3
SOC 201 Social Gerontology _____ 3
PSY 219 Child Psychology & Dev _____ 3
SOC 101 Intro to Sociology _____ 3

Total Credits Required 64

General Education Requirements

Communications

350:101 English Composition I 3
350:102 English Composition II 3

Social Science

830:102 Principles of Psychology 3
910:220 Introduction to Social Work 3

Lab Science/ Math

Math Proficiency 4

Physical Ed/Health

Free Elective 3

Humanities

History Requirement 3

Major Requirements

Social Science Elective 3
Free Elective 3
Free Elective 3
See Notes
Free Elective 3
910:324 Social Work Theory Meth Lab 3
" " "
" " "
" " "
Free Elective 3

Additional Requirements

910:342 Contemporary Social Problems 3
Free Elective 3
No credit issued
920:201 Sociology I 3

Total Transferable Credits 49-65

NOTES/COMMENTS:

Although it is not required in the 2202 program, students can take BIO 101-102 at ECC to fulfill Rutgers Lab Science Requirement and 6 credits in English Literature which are required by Rutgers for graduation.

- *SOC 121 MUST be taken with SOC 108 to receive credit for 910:342. ** SOC 121 MUST be taken with SOC 111 to receive credit for 910:220. ***Students SOC 228-229 & 230-231 MUST take to receive credit for 910:324.
- ~ MUST receive a "B" or better.