

## PHYSICS DIVISION

## FIRST YEAR: FIRST SEMESTER

| Sequence | MAJOR   | LEVEL        | PEOPLE SOFT CODE | DESCRIPTION (ENG.) | DESCRIPTION (ARAB.)   | UNITS           |     |       |       | REQUIREMENTS |                  |                   |                    |  |
|----------|---------|--------------|------------------|--------------------|-----------------------|-----------------|-----|-------|-------|--------------|------------------|-------------------|--------------------|--|
|          |         |              |                  |                    |                       | LEC             | LAB | CONT. | TOTAL | LEVEL        | PEOPLE SOFT CODE | DESCRIPTION (ENG) | DESCRIPTION (ARAB) |  |
| 1        | General | Gen. Level 1 | MATH             | 101N               | General Mathematics   | رياضيات عامة    | 2   | 1     | 3     | 3            |                  |                   |                    |  |
| 2        | General | Gen. Level 1 | PHYS             | 101N               | General Physics (1)   | فيزياء عامة (1) | 3   | 1     | 4     | 4            |                  |                   |                    |  |
| 3        | General | Gen. Level 1 | CHEM             | 101N               | General Chemistry (1) | كيمياء عامة (1) | 3   | 1     | 4     | 4            |                  |                   |                    |  |
| 4        | General | Gen. Level 1 | BIOL             | 101N               | General Biology       | احياء عامة      | 3   | 1     | 4     | 4            |                  |                   |                    |  |
| 5        | General | Gen. Level 1 | HTFT             | 151S               | Health & Fitness      | الصحة واللياقة  | 1   | 0     | 1     | 1            |                  |                   |                    |  |
|          |         |              |                  |                    | TOTAL UNITS           |                 | 12  | 4     | 16    | 16           |                  |                   |                    |  |
|          |         |              |                  |                    | CUMULATIVE UNITS      |                 | 12  | 4     | 16    | 16           |                  |                   |                    |  |

## PHYSICS DIVISION

## FIRST YEAR: SECOND SEMESTER

| Sequence | MAJOR   | LEVEL        | PEOPLE SOFT CODE | DESCRIPTION (ENG.) | DESCRIPTION (ARAB.)   | UNITS             |     |       |       | REQUIREMENTS |                  |                   |                    |  |
|----------|---------|--------------|------------------|--------------------|-----------------------|-------------------|-----|-------|-------|--------------|------------------|-------------------|--------------------|--|
|          |         |              |                  |                    |                       | LEC               | LAB | CONT. | TOTAL | LEVEL        | PEOPLE SOFT CODE | DESCRIPTION (ENG) | DESCRIPTION (ARAB) |  |
| 1        | Physics | Phys Level 1 | ENGL             | 122N               | General English       | إنجليزي عام       | 3   | 0     | 3     | 3            |                  |                   |                    |  |
| 2        | Physics | Phys Level 1 | ISLM             | 151                | Islamic Culture       | الثقافة الإسلامية | 2   | 0     | 2     | 2            |                  |                   |                    |  |
| 3        | Physics | Phys Level 1 | MATH             | 152N               | calculus (1)          | تفاضل وتكامل (1)  | 2   | 1     | 3     | 3            |                  |                   |                    |  |
| 4        | Physics | Phys Level 1 | PHYS             | 132N               | General Physics (2)   | فيزياء عامة (2)   | 3   | 1     | 4     | 4            |                  |                   |                    |  |
| 5        | Physics | Phys Level 1 | CHEM             | 142N               | General Chemistry (2) | كيمياء عامة (2)   | 3   | 1     | 4     | 4            |                  |                   |                    |  |
|          |         |              |                  |                    | TOTAL UNITS           |                   | 13  | 3     | 16    | 16           |                  |                   |                    |  |
|          |         |              |                  |                    | CUMULATIVE UNITS      |                   | 25  | 7     | 32    | 32           |                  |                   |                    |  |

## PHYSICS DIVISION

## SECOND YEAR: FIRST SEMESTER

| Sequence | MAJOR   | LEVEL        | PEOPLE SOFT CODE | DESCRIPTION (ENG.) | DESCRIPTION (ARAB.)        | UNITS                 |     |       |       | REQUIREMENTS |                  |                   |                    |                     |                  |
|----------|---------|--------------|------------------|--------------------|----------------------------|-----------------------|-----|-------|-------|--------------|------------------|-------------------|--------------------|---------------------|------------------|
|          |         |              |                  |                    |                            | LEC                   | LAB | CONT. | TOTAL | LEVEL        | PEOPLE SOFT CODE | DESCRIPTION (ENG) | DESCRIPTION (ARAB) |                     |                  |
| 1        | Physics | Phys Level 2 | MATH             | 180N               | Introduction to Computer   | مقدمة في الحاسب الآلي | 2   | 1     | 3     | 3            |                  |                   |                    |                     |                  |
| 2        | Physics | Phys Level 2 | ISLM             | 152                | Faith and Ethics           | العقيدة والأخلاق      | 2   | 0     | 2     | 2            |                  |                   |                    |                     |                  |
| 3        | Physics | Phys Level 2 | MATH             | 207N               | Introduction to Statistics | مقدمة في الإحصاء      | 1   | 1     | 2     | 2            | Gen. Level 1     | MATH              | 101N               | General Mathematics | رياضيات عامة     |
| 4        | Physics | Phys Level 2 | PHYS             | 203N               | Optics                     | بصريات                | 2   | 0     | 2     | 2            | Phys Level 1     | PHYS              | 132N               | General Physics (2) | فيزياء عامة (2)  |
| 5        | Physics | Phys Level 2 | PHYS             | 201N               | General Physics (3)        | فيزياء عامة (3)       | 3   | 1     | 4     | 4            | Gen. Level 1     | PHYS              | 101N               | General Physics (1) | فيزياء عامة (1)  |
| 6        | Physics | Phys Level 2 | MATH             | 211N               | Calculus (2)               | تفاضل وتكامل (2)      | 2   | 1     | 3     | 3            | Gen. Level 1     | MATH              | 101N               | General Mathematics | رياضيات عامة     |
|          |         |              |                  |                    |                            |                       |     |       |       |              | Phys Level 1     | MATH              | 152N               | calculus (1)        | تفاضل وتكامل (1) |
|          |         |              |                  |                    | TOTAL UNITS                |                       | 12  | 4     | 16    | 16           |                  |                   |                    |                     |                  |
|          |         |              |                  |                    | CUMULATIVE UNITS           |                       | 37  | 11    | 48    | 48           |                  |                   |                    |                     |                  |

## PHYSICS DIVISION

## SECOND YEAR: SECOND SEMESTER

| Sequence | MAJOR   | LEVEL        | PEOPLE SOFT CODE | DESCRIPTION (ENG.) | DESCRIPTION (ARAB.)      | UNITS             |     |       |       | REQUIREMENTS |                  |                   |                    |                     |                  |
|----------|---------|--------------|------------------|--------------------|--------------------------|-------------------|-----|-------|-------|--------------|------------------|-------------------|--------------------|---------------------|------------------|
|          |         |              |                  |                    |                          | LEC               | LAB | CONT. | TOTAL | LEVEL        | PEOPLE SOFT CODE | DESCRIPTION (ENG) | DESCRIPTION (ARAB) |                     |                  |
| 1        | Physics | Phys Level 3 | ENGL             | 103N               | Scientific English       | إنجليزي علمي      | 2   | 0     | 2     | 2            | Phys Level 1     | ENGL              | 122N               | General English     | إنجليزي عام      |
| 2        | Physics | Phys Level 3 | PHYS             | 208N               | Waves                    | موجات             | 3   | 0     | 3     | 3            | Gen. Level 1     | PHYS              | 101N               | General Physics (1) | فيزياء (1)       |
| 3        | Physics | Phys Level 3 | MATH             | 212N               | Calculus (3)             | تفاضل وتكامل (3)  | 2   | 1     | 3     | 3            | Phys Level 2     | MATH              | 211N               | Calculus (2)        | تفاضل وتكامل (2) |
| 4        | Physics | Phys Level 3 | PHYS             | 204N               | Modern Physics           | فيزياء حديثة      | 3   | 0     | 3     | 3            | Gen. Level 1     | PHYS              | 101N               | General Physics (1) | فيزياء عامة (1)  |
|          |         |              |                  |                    |                          |                   |     |       |       |              | Phys Level 1     | PHYS              | 132N               | General Physics (2) | فيزياء عامة (2)  |
| 5        | Physics | Phys Level 3 | PHYS             | 206N               | Astronomy                | علم الفلك         | 3   | 0     | 3     | 3            | Phys Level 1     | PHYS              | 132N               | General Physics (2) | فيزياء عامة (2)  |
| 6        | Physics | Phys Level 3 | PHYS             | 210N               | Mathematical Physics (1) | فيزياء رياضية (1) | 3   | 0     | 3     | 3            | Phys Level 2     | MATH              | 211N               | Calculus (2)        | تفاضل وتكامل (2) |
|          |         |              |                  |                    | TOTAL UNITS              |                   | 16  | 1     | 17    | 17           |                  |                   |                    |                     |                  |
|          |         |              |                  |                    | CUMULATIVE UNITS         |                   | 53  | 12    | 65    | 65           |                  |                   |                    |                     |                  |

## PHYSICS DIVISION

## THIRD YEAR: FIRST SIMISTER

| Sequence         | MAJOR   | LEVEL        | PEOPLE SOFT CODE |      | DESCRIPTION (ENG.)       | DESCRIPTION (ARAB.)   | UNITS |     |       |       | REQUIREMENTS |                  |                    |                          |                   |
|------------------|---------|--------------|------------------|------|--------------------------|-----------------------|-------|-----|-------|-------|--------------|------------------|--------------------|--------------------------|-------------------|
|                  |         |              |                  |      |                          |                       | LEC   | LAB | CONT. | TOTAL | LEVEL        | PEOPLE SOFT CODE | DESCRIPTION (ENG.) | DESCRIPTION (ARAB.)      |                   |
| 1                | Physics | Phys Level 4 | ARAB             | 152  | Literary Taste           | التذوق الأدبي         | 2     | 0   | 2     | 2     |              |                  |                    |                          |                   |
| 2                | Physics | Phys Level 4 | PHYS             | 301N | Classical Mechanics (1)  | ميكانيكا كلاسيكية (1) | 3     | 0   | 3     | 3     | Phys Level 3 | PHYS             | 210N               | Mathematical Physics (1) | فيزياء رياضية (1) |
| 3                | Physics | Phys Level 4 | PHYS             | 303N | Electromagnetic (1)      | كهرومغناطيسية (1)     | 3     | 0   | 3     | 3     | Phys Level 3 | PHYS             | 210N               | Mathematical Physics (1) | فيزياء رياضية (1) |
| 4                | Physics | Phys Level 4 | PHYS             | 305N | Thermal dynamics         | ديناميكا حرارية       | 3     | 0   | 3     | 3     | Phys Level 2 | PHYS             | 201N               | General Physics (3)      | فيزياء عامة (3)   |
| 5                | Physics | Phys Level 4 | PHYS             | 307N | Electronics (1)          | الالكترونيات (1)      | 3     | 0   | 3     | 3     | Phys Level 1 | PHYS             | 132N               | General Physics (2)      | فيزياء عامة (2)   |
| 6                | Physics | Phys Level 4 | PHYS             | 309N | Mathematical Physics (2) | فيزياء رياضية (2)     | 3     | 0   | 3     | 3     | Phys Level 3 | PHYS             | 210N               | Mathematical Physics (1) | فيزياء رياضية (1) |
| TOTAL UNITS      |         |              |                  |      |                          |                       | 17    | 0   | 17    | 17    |              |                  |                    |                          |                   |
| CUMULATIVE UNITS |         |              |                  |      |                          |                       | 70    | 12  | 82    | 82    |              |                  |                    |                          |                   |

## PHYSICS DIVISION

## THIRD YEAR: SECOND SIMISTER

| Sequence         | MAJOR   | LEVEL        | PEOPLE SOFT CODE |      | DESCRIPTION (ENG.)           | DESCRIPTION (ARAB.)         | UNITS |     |       |       | REQUIREMENTS |                  |                    |                         |                       |
|------------------|---------|--------------|------------------|------|------------------------------|-----------------------------|-------|-----|-------|-------|--------------|------------------|--------------------|-------------------------|-----------------------|
|                  |         |              |                  |      |                              |                             | LEC   | LAB | CONT. | TOTAL | LEVEL        | PEOPLE SOFT CODE | DESCRIPTION (ENG.) | DESCRIPTION (ARAB.)     |                       |
| 1                | Physics | Phys Level 5 | ISLM             | 251  | The Economic System in Islam | النظام الإقتصادي في الإسلام | 2     | 0   | 2     | 2     |              |                  |                    |                         |                       |
| 2                | Physics | Phys Level 5 | PHYS             | 304N | Electromagnetic (2)          | كهرومغناطيسية (2)           | 3     | 0   | 3     | 3     | Phys Level 4 | PHYS             | 303N               | Electromagnetic (1)     | كهرومغناطيسية (1)     |
| 3                | Physics | Phys Level 5 | PHYS             | 306N | Laboratory Physics (1)       | فيزياء عملي (1)             | 0     | 2   | 2     | 2     | Phys Level 2 | PHYS             | 201N               | General Physics (3)     | فيزياء عامة (3)       |
| 4                | Physics | Phys Level 5 | PHYS             | 308N | Electronics (2)              | الالكترونيات (2)            | 2     | 1   | 3     | 3     | Phys Level 4 | PHYS             | 307N               | Electronics (1)         | الالكترونيات (1)      |
| 5                | Physics | Phys Level 5 | PHYS             | 310N | Quantum mechanics (1)        | ميكانيكا الكم (1)           | 3     | 0   | 3     | 3     | Phys Level 3 | PHYS             | 204N               | Modern Physics          | فيزياء حديثة          |
| 6                | Physics | Phys Level 5 | PHYS             | 302N | Classical Mechanics (2)      | ميكانيكا كلاسيكية (2)       | 3     | 0   | 3     | 3     | Phys Level 4 | PHYS             | 301N               | Classical Mechanics (1) | ميكانيكا كلاسيكية (1) |
| TOTAL UNITS      |         |              |                  |      |                              |                             | 13    | 3   | 16    | 16    |              |                  |                    |                         |                       |
| CUMULATIVE UNITS |         |              |                  |      |                              |                             | 83    | 15  | 98    | 98    |              |                  |                    |                         |                       |

## PHYSICS DIVISION

## FORTH YEAR: FIRST SIMISTER

| Sequence         | MAJOR   | LEVEL        | PEOPLE SOFT CODE |      | DESCRIPTION (ENG.)            | DESCRIPTION (ARAB.)       | UNITS |     |       |       | REQUIREMENTS |                  |                    |                        |                   |
|------------------|---------|--------------|------------------|------|-------------------------------|---------------------------|-------|-----|-------|-------|--------------|------------------|--------------------|------------------------|-------------------|
|                  |         |              |                  |      |                               |                           | LEC   | LAB | CONT. | TOTAL | LEVEL        | PEOPLE SOFT CODE | DESCRIPTION (ENG.) | DESCRIPTION (ARAB.)    |                   |
| 1                | Physics | Phys Level 6 | ISLM             | 252  | The Political System in Islam | النظام السياسي في الإسلام | 2     | 0   | 2     | 2     |              |                  |                    |                        |                   |
| 2                | Physics | Phys Level 6 | ARAB             | 111N | Writing & Expression          | الكتابة والتعبير          | 2     | 0   | 2     | 2     |              |                  |                    |                        |                   |
| 3                | Physics | Phys Level 6 | PHYS             | 404N | Nuclear Physics               | فيزياء نووية              | 3     | 0   | 3     | 3     | Phys Level 5 | PHYS             | 310N               | Quantum mechanics (1)  | ميكانيكا الكم (1) |
| 4                | Physics | Phys Level 6 | PHYS             | 405N | Statistical Physics           | فيزياء إحصائية            | 3     | 0   | 3     | 3     | Phys Level 4 | PHYS             | 305N               | Thermal dynamics       | ديناميكا حرارية   |
| 5                | Physics | Phys Level 6 | PHYS             | 407N | Practical Physics (2)         | فيزياء عملي (2)           | 0     | 2   | 2     | 2     | Phys Level 5 | PHYS             | 306N               | Laboratory Physics (1) | فيزياء عملي (1)   |
| 6                | Physics | Phys Level 6 | PHYS             | 411N | Quantum Mechanics (2)         | ميكانيكا الكم (2)         | 3     | 0   | 3     | 3     | Phys Level 5 | PHYS             | 310N               | Quantum mechanics (1)  | ميكانيكا الكم (1) |
| TOTAL UNITS      |         |              |                  |      |                               |                           | 13    | 2   | 15    | 15    |              |                  |                    |                        |                   |
| CUMULATIVE UNITS |         |              |                  |      |                               |                           | 96    | 17  | 113   | 113   |              |                  |                    |                        |                   |

## PHYSICS DIVISION

## FORTH YEAR: SECOND SIMISTER

| Sequence         | MAJOR   | LEVEL        | PEOPLE SOFT CODE |      | DESCRIPTION (ENG.)    | DESCRIPTION (ARAB.) | UNITS |     |       |       | REQUIREMENTS |                  |                    |                          |                       |
|------------------|---------|--------------|------------------|------|-----------------------|---------------------|-------|-----|-------|-------|--------------|------------------|--------------------|--------------------------|-----------------------|
|                  |         |              |                  |      |                       |                     | LEC   | LAB | CONT. | TOTAL | LEVEL        | PEOPLE SOFT CODE | DESCRIPTION (ENG.) | DESCRIPTION (ARAB.)      |                       |
| 1                | Physics | Phys Level 7 | PHYS             | 402N | Atomic Physics        | فيزياء ذرية         | 3     | 0   | 3     | 3     | Phys Level 5 | PHYS             | 310N               | Quantum mechanics (1)    | ميكانيكا الكم (1)     |
| 2                | Physics | Phys Level 7 | PHYS             | 401N | Solid State Physics   | فيزياء الجوامد      | 3     | 0   | 3     | 3     | Phys Level 5 | PHYS             | 310N               | Quantum mechanics (1)    | ميكانيكا الكم (1)     |
| 3                | Physics | Phys Level 7 | PHYS             | 406N | Computational Physics | فيزياء حاسوبية      | 2     | 0   | 2     | 2     | Phys Level 2 | MATH             | 180N               | Introduction to Computer | مقدمة في الحاسب الآلي |
| 4                | Physics | Phys Level 7 | PHYS             | 408N | Biophysics            | فيزياء حيوية        | 3     | 0   | 3     | 3     | Phys Level 3 | PHYS             | 210N               | Mathematical Physics (1) | فيزياء رياضية (1)     |
|                  |         |              |                  |      |                       |                     |       |     |       |       | Phys Level 2 | PHYS             | 201N               | General Physics (3)      | فيزياء عامة (3)       |
|                  |         |              |                  |      |                       |                     |       |     |       |       | Phys Level 3 | PHYS             | 204N               | Modern Physics           | فيزياء حديثة          |
| 5                | Physics | Phys Level 7 | PHYS             | 410N | Selected Subjects     | موضوعات مختارة      | 3     | 0   | 3     | 3     |              |                  |                    |                          |                       |
| 6                | Physics | Phys Level 7 | PHYS             | 412N | Seminar               | حلقة نقاش           | 1     | 0   | 1     | 1     |              |                  |                    |                          |                       |
| TOTAL UNITS      |         |              |                  |      |                       |                     | 15    | 0   | 15    | 15    |              |                  |                    |                          |                       |
| CUMULATIVE UNITS |         |              |                  |      |                       |                     | 111   | 17  | 128   | 128   |              |                  |                    |                          |                       |