

Course Registration Guide for the 2021 Spring Semester

(No. 19)

○ Course Registration Plan

Schedule	Date	Details
Orientation	Nov 11 (Wed)	. Course Registration Orientation for the 2021 Spring semester
The 1st Course Registration (Up to 26 Credits)	Nov 16 (Mon) ~ Nov 17 (Tue)	. Register courses and submit the application through KSA school website. (Please Keep the Deadline!)
Eliminate the cancelled courses and Correct some students' registration error	Nov 18 (Wed) ~	. Correct some students' registration error . Cancel some elective(intensive) courses under 6 students registered . Impose a penalty point per error
Notice of cancelled courses and 2nd Course Registration	Nov 27 (Fri) ~	. Notify penalized students after 2nd course registration . Subject of 2nd course registration : Students who have cancelled courses in their registered courses.
3rd Course Registration	Feb 8 (Mon) ~ Feb 9, 2021 (Tue)	. Register for Remaining Credits

* Penalty Points

- Absence from orientation (1 point)
- In the case of not submitting the application form within the period (1 point)
- In the case of breaking the course registration rules (1 point)
- Disobey the school personnel's teaching (5 points)

○ Course Registration Rules

▷ Students must consult with their homeroom teacher before registering for courses. The Course registration application for 2021 spring semester will be accepted by online through KSA school website. Please refer to the “Guideline on Online Course Registration for 2021 Spring Semester” for the online course registration manual.

▷ Students are required to plan and register for the courses after reviewing the course outline and the table of opened courses below. **(Please choose courses in red box! : 5th semester)**

▷ **Students can register for the courses up to 26 credits in the period of 1st Course Registration!** 2, 3rd grade students can take a maximum of 30 credits and students who have received higher than 3.7 grade last semester can register for additional credits up to a total of 33 credits in the period of 3rd Course Registration.

▷ Even if students have taken all the credits for graduation, they must take a minimum of 10 credits per semester.

▷ Students who have completed the required courses by the 4th semester do not have required courses for the 5th semester(Except those who have not completed the required courses and who withdraw from the course). However, the remaining credits of each subject should be checked carefully so that graduation credits can be filled.

➔ **If you withdrew some required courses or if you receive a Fail grade on required courses, you must retake the courses to meet the graduation requirement.**

▷ After the 1st Course Registration, elective courses with fewer than 6 students will be cancelled.

▷ 2nd and 3rd year students are combined in the elective courses.

▷ **Courses must be completed according to the course hierarchy of each subject.** (If a student wishes to take the upper-level course without taking the prerequisite, the student must obtain the agreement of the teacher in charge and the dean of the subject. When applying for courses by online, please apply according to the "Guideline on Online Course Registration for 2021 Spring Semester".)

▷ **AP courses with laboratory components must be taken along with the theory class.** For example, General Physics 1 must be taken with General Physics 1 Laboratory Class.

→ Exclude General Chemistry 2 course. In other word, when taking General Chemistry2, students can take General Chemistry2 alone, but it is impossible to take General Chemistry Lab2 alone.

Ex1> Taking General Chemistry2 alone(O)

Ex2> Taking General Chemistry2 and General Chemistry Lab2(O)

Ex3> Taking General Chemistry Lab2 alone(X)

→ In the case students who withdraw from the AP lab course in 2020-1 semester, only the lab course can be taken independently

→ Students who withdraw from the AP lab course in 2020-1 semester can take the upper-level AP course with the withdrawn lab course

Ex> Students who withdraw from the General Physics Lab1 can take the course together with "General Physics2, General Physics Lab2, General Physics Lab1".

▷ **If a student has received a B- or lower in core(required) courses, he/she shall obtain confirmation from the teacher in charge and the head of the dept. when applying to take AP courses.**

→ When a student applying to AP courses in the 3rd semester and he/she has received a B- or lower in core(required) courses in the 1st semester, he/she must obtain confirmation from the teacher in charge and the head of the dept.

→ When a student applying to AP courses in the 4th semester and he/she has received a B- or lower in core(required) courses in both of 1st and 2nd semester, he/she must obtain confirmation from the teacher in charge and the head of the dept.

→ If a student has already submitted confirmation of relevant course in the past, he/she can take the AP course without further approval.

→ Exclude Calculus2, General Earth Science and General Astronomy (except F grade, those courses can be taken without approval.)

→ In case of Mathematics AP courses other than Calculus2, a student who has received a B- or lower in all the mathematics core(required) courses taken in all semesters except the previous semesters, he/she must be approved by the teacher in charge and the head of the dept.

Ex1> If a student who wants to take General Chemistry1 in the 3rd semester has received B- or lower in Chemistry and Exp.1, he/she must obtain confirmation from the Chemistry and exp.1 teacher and the head of Chemistry & Biology. Even though this student's Chemistry and Exp.2 grade is B- or lower, he/she can apply for Chemistry AP courses after 4th semester.

Ex2> If a student who wants to take General Biology1 in the 4th semester has received A- in Biology and Exp.1 and B- in Biology and Exp.2, he/she can apply for Biology AP courses without approval.

Ex3> If a student who wants to take Differential Equations in the 5th semester has received B- or lower in all the mathematics core(required) courses taken during the 1st to 3rd semesters, he/she must obtain confirmation from the Basic Mathematics, Mathematics 1 and Mathematics2 teachers and the head of Mathematics & Computer Science.

▷ Retaking a course is only possible if a grade lower than C0 was given, and the highest grade that a student

can earn on the second attempt is A-. Once a student retakes a course, the previous grade is removed and the

second grade is used. Students can retake the courses up to 15 credits during 3 years in school.

But, In the period of 1st Course Registration, students can only register 1 course for retaking. And additional

fees must be paid. (When filling in the application form, the box for 'Retaking' should be checked.)

▷ Students who do not pass the foreign language proficiency criteria required for graduation by the 5th semester must take one of the English intensive course in the 6th semester additionally, or take ECC in the summer or 6th semester. (Correspondence ECC course will be guided later.)

■ Table of curriculum organization for foreign students

Category	Type	Subject	Core (Required)	Intensive (Elective)	Total
Academic Courses	Humanities	Korean	12	20	60
		Social science	8		
		Foreign Language	12		
		Physical education	4		
		Music and arts	4		
		Subtotal	40	20	60
	Natural sciences	Mathematics	16	31 [*]	80
		Physics	10		
		Chemistry	8		
		Biology	8		
		Earth science	3		
		Computer science	4		
		Subtotal	49	31	80
Total			89	51	140
Creative research activities	Creative basic research		6		30
	Self-directed, small group research, and domestic and international on-site research		16		
	Graduation research		8		
Competency- based leadership activities	Career Development Activities		60 hours or more		300 hours or more in total
	Cooperation Activity		60 hours or more		
	Global Citizenship Activity		60 hours or more		
Total					30
Total					170

* Credits only from convergence courses or Intensive (elective) courses in natural science.

Course Opening Plan for Student No. 19

1) Codes of Each Department

MC(Mathematics & Computer Science Dept.)

PE(Physics & Earth Science Dept.)

CB(Chemistry & Biology Dept.)

HA(Arts & Humanities Dept.)

CR(Creative Research Activities)

2) Codes of Each Subjects

* Four-digit number: Course level

* Three-digit number: Subject

(example : Math 1 = MC1101, Programming 1 = MC1201, etc.)

1000 Required

2000 Elective – Liberal Arts

3000 Elective - AP

4000 Elective – Intensive elective for outstanding students in the given department

5000 Elective – special lectures

6000 Elective – Converged courses (within the department or inter-department)

7000 Creative research activities (two-digit numbers with school grade differentiated)

■ Offered courses for foreign students in 5th Curriculum of KSA

Subject	Course Title in English	Credit	Code	Classification	AP	1st	2nd	3rd	4th	5th	6th	Lecture:Lab: Credit(HW)	Prerequisites
Mathematics	Basic Mathematics	4	MC1109	Core		○						4:1:4(6)	
	Mathematics1	4	MC1106	Core			○					4:1:4(6)	
	Mathematics2	4	MC1107	Core				○				4:1:4(6)	Mathematics 1
	Calculus1	4	MC1108	Core					○			4:1:4(6)	Mathematics 2
	Mathematics3	3	MC2103	Intensive					○	○	○	3:0:3(2)	Mathematics 2
	Application of Mathematics	3	MC2104	Intensive						○	○	3:0:3(4)	Calculus 2
	<u>Calculus2</u>	4	MC3109	Intensive	AP					○	○	4:1:4(6)	Calculus 1
	Calculus3	3	MC3110	Intensive	AP						○	3:1:3(6)	Calculus 2
	Elementary Number Theory	3	MC3105	Intensive	AP				○	○	○	3:0:3(6)	Mathematics 2
	Linear Algebra	3	MC3111	Intensive	AP					○	○	3:1:3(6)	Calculus 1
	Differential Equations	3	MC3107	Intensive	AP					○	○	3:0:3(6)	Calculus 1
	Probability and Statistics	3	MC3108	Intensive	AP						○	3:1:3(6)	Calculus 2
	Mathematics Seminar	1	MC4101	Intensive						○	○	1:0:1(2)	Calculus 1
	Elementary real analysis	3	MC4102	Intensive						○	○	3:0:3(6)	Calculus 1
	Topics in Mathematics	3	MC5101~	Intensive							○	3:0:3(3)	Calculus 2
Computer Science	Computer Science 1	2	MC1201	Core				○				2:0:2(4)	
	Computer Science 2	2	MC1202	Core					○			2:0:2(4)	Computer Science1
	Computer Science 3	3	MC2201	Intensive						○	○	3:0:3(6)	Computer Science2
	<u>Programming and Problem Solving</u>	3	MC3203	Intensive	AP					○	○	3:0:3(6)	Computer Science2
	Discrete Structures	3	MC3202	Intensive	AP						○	3:0:3(6)	Computer Science3
	Data Structures	3	MC4205	Intensive						○	○	3:0:3(6)	Computer Science2
	Algorithms	3	MC4206	Intensive							○	3:0:3(6)	Computer Science3, Data Structures
	Advanced Algorithms	3	MC4203	Intensive								3:0:3(6)	Algorithms

Subject	Course Title in English	Credit	Code	Classification	AP	1st	2nd	3rd	4th	5th	6th	Lecture:Lab: Credit(HW)	Prerequisites
	Computer Science Seminar	1	MC4204	Intensive					X		○	1:0:1(3)	Computer Science3, Data Structures
	Special Topics in Computer Science	3	MC5201 ~	Intensive								3:0:3(6)	Computer Science3, Data Structures
Physics	Basics of Physics I	2	PE1105	Core		○						1:1:2(2)	
	Basics of Physics II	2	PE1106	Core			○					1:1:2(2)	Basics of Physics I
	Physics and Exp. I	3	PE1107	Core				○				2:2:3(4)	Basics of Physics II
	Physics and Exp. II	3	PE1108	Core					○			2:2:3(4)	Physics and Exp. I
	Project Physics	3	PE2101	Intensive				○	○	○	○	1:2:3(3)	Physics and Exp.2
	<u>Elementary Physics</u>	3	PE2102	Intensive				○	○	○	○	3:0:3(3)	Physics and Exp.2
	<u>General Physics1</u>	4	PE3101	Intensive	AP			○	○	○	○	4:0:4(4)	Physics and Exp.1
	General Physics Lab1	1	PE3102	Intensive	AP			○	○	○	○	0:2:1(3)	Physics and Exp.1
	<u>General Physics2</u>	4	PE3103	Intensive	AP			○	○	○	○	4:0:4(4)	General Physics1
	General Physics Lab2	1	PE3104	Intensive	AP			○	○	○	○	0:2:1(3)	General Physics1
	Introduction to Modern Physics	3	PE4101	Intensive				○		○		3:0:3(3)	General Physics2
	Physics Seminar	1	PE4102	Intensive				○		○		1:0:1(1)	General Physics1
	Introduction to Mechanics	3	PE4103	Intensive				○		○		3:0:3(3)	General Physics1
	Introduction to Electrodynamics	3	PE4104	Intensive					○		○	3:0:3(3)	General Physics2
	Special Topics in Physics (LASER Understanding and its Applications)	3	PE5103	Intensive				○		○		1:2:3(3)	General Physics1
	Special Topics in Physics (Basics of Thermal and Statistical Physics)	3	PE5104	Intensive					○		○	3:0:3(3)	General Physics1
	Special Topics in Physics (Understanding and applications of basic electronics)	3	PE5105	Intensive				○		○		1:2:3(3)	General Physics1
	Special Topics in Physics (Topics in Experimental Physics)	3	PE5106	Intensive					○		○	1:2:3(3)	General Physics1
	Special Topics in Physics (Advanced Problem-Solving Technique)	3	PE5107	Intensive						○	○	3:0:3(3)	General Physics2
Earth Science	Basic Astronomical Observation	3	PE2201	Intensive				▲				1:2:3(1)	Basics of Physics II
	Earth and Environmental Sciences	3	PE2202	Intensive				▲				3:0:3(3)	Basics of Physics II

Subject	Course Title in English	Credit	Code	Classification	AP	1st	2nd	3rd	4th	5th	6th	Lecture:Lab: Credit(HW)	Prerequisites
	Introduction to Earth Science	3	PE2203	Intensive					○			3:0:3(3)	Earth and Environmental Sciences
	General Astronomy	3	PE3201	Intensive	AP					○	○	3:0:3(3)	Basic Astronomical Observation
	General Astronomy Lab	1	PE3202	Intensive	AP					○	○	0:2:1(2)	Basic Astronomical Observation
	General Earth Science	3	PE3203	Intensive	AP					○	○	3:0:3(3)	Introduction to Earth Science
	General Earth Science Lab	1	PE3204	Intensive	AP					○	○	0:2:1(2)	Introduction to Earth Science
	Weather and Climate	3	PE4201	Intensive							○	3:0:3(3)	General Earth Science
	Space Science and Lab	3	PE4202	Intensive						⊖		2:1:3(3)	General Astronomy/ General Physics2
	Stars and Universe	3	PE4203	Intensive					⊖		⊖	3:0:3(3)	General Astronomy/ General Physics1
	Earth Science Seminar	1	PE4204	Intensive							○	1:0:1(2)	General Astronomy/ General Earth Science
	Special Topics in Earth Science (Observational Astronomy)	3	PE5201	Intensive							⊖	1:2:3(1)	General Astronomy
	Special Topics in Earth Science (Introduction to Geology)	3	PE5202	Intensive							○	3:0:3(3)	General Earth Science
	Special Topics in Earth Science (Introduction to Oceanography)	3	PE5203	Intensive						⊖		3:0:3(3)	General Earth Science
Chemistry	Chemistry and Exp. I	4	CB1107	Core		●						3:1:4(3)	
	Chemistry and Exp. II	4	CB1108	Core			●					3:1:4(3)	Chemistry and Exp. I
	Chemistry in Life	2	CB2102	Intensive				●	○	●	○	0:2:2(3)	Chemistry and Exp. 2
	General Chemistry1	4	CB3101	Intensive	AP			◎	◎	◎	◎	4:0:4(4)	Chemistry and Exp. 2
	General Chemistry Lab1	1	CB3102	Intensive	AP			◇	◇	◇	◇	0:2:1(4)	Chemistry and Exp. 2
	General Chemistry2	4	CB3103	Intensive	AP			◎	◎	◎	◎	4:0:4(4)	General Chemistry1
	General Chemistry Lab2	1	CB3104	Intensive	AP			◇	◇	◇	◇	0:2:1(4)	General Chemistry1
	Chemistry and Energy	3	CB4101	Intensive				○	●	○	●	3:0:3(4)	General Chemistry1
	Fundamentals of Organic Chemistry	3	CB4102	Intensive				○	●	○	●	3:0:3(4)	General Chemistry1
	Fundamentals of Analytical Chemistry	3	CB4103	Intensive				●	○	●	○	2:1:3(3)	General Chemistry1

Subject	Course Title in English	Credit	Code	Classification	AP	1st	2nd	3rd	4th	5th	6th	Lecture:Lab: Credit(HW)	Prerequisites
	Introduction to Nanochemistry	3	CB4104	Intensive				○	●	○	●	3:0:3(3)	General Chemistry1
	Spectroscopy	3	CB4105	Intensive				●	○	●	○	3:0:3(3)	General Chemistry1
	Chemistry Seminar	1	CB4106	Intensive				○		○		1:0:1(2)	General Chemistry1
	Special Topics in Chemistry	3	CB5101~	Intensive							○		
Biology	Biology and Exp. I	4	CB1207	Core		●						3:1:4(3)	
	Biology and Exp. II	4	CB1208	Core			●					3:1:4(3)	Biology and Exp. I
	Exploring into Life Science	2	CB2202	Intensive				●		●		2:0:2(1)	Biology and Exp. 2
	General Biology1	4	CB3201	Intensive	AP			●	●	●	●	4:0:4(4)	Biology and Exp. 2
	General Biology Lab	1	CB3202	Intensive	AP			◇	◇	◇	◇	0:2:1(1)	Biology and Exp. 2
	General Biology2	4	CB3203	Intensive	AP			○	●	○	●	4:0:4(4)	General Biology1
	Infection and Immunity	3	CB4201	Intensive				○	●	○	●	3:0:3(3)	General Biology1
	Basic Brain Science	3	CB4202	Intensive				○	●	○	●	3:0:3(1)	General Biology1
	Cell and Disease	3	CB4203	Intensive				●	○	●	○	3:0:3(2)	General Biology1
	DNA Science	3	CB4205	Intensive	AP			●	○	●	○	2:1:3(2)	General Biology1
	Biology Seminar	1	CB4206	Intensive						⊖		1:0:1(1)	General Biology1
	Special Topics in Biology	3	CB5201~	Intensive					○		○		General Biology1
Korean	Korean I	3	HA1110	Core		○						2:1:3(2)	
	Korean II	3	HA1111	Core			○					2:1:3(2)	Korean I
	KoreanⅢ	3	HA1112	Core				○				2:1:3(2)	Korean I , Korean II
	KoreanⅣ	3	HA1113	Core					○			2:1:3(2)	Korean I , Korean II , KoreanⅢ
	TOPIK Korean	3	HA2109	Intensive						○		2:1:3(2)	Korean I , Korean II , KoreanⅢ, KoreanⅣ
	Understanding of Korean Literature	3	HA2110	Intensive							○	2:1:3(2)	Korean I , Korean II
Social Studies	World History	2	HA1211	Core		○						2:0:2(2)	
	Korean History	2	HA1212	Core			○					2:0:2(2)	World History
	Introduction to Politics and Economics	2	HA1213	Core				○				2:0:2(1)	World History, Korean History

Subject	Course Title in English	Credit	Code	Classification	AP	1st	2nd	3rd	4th	5th	6th	Lecture:Lab: Credit(HW)	Prerequisites
	Introduction to Philosophy	2	HA1214	Core					○			2:0:2(2)	World History, Korean History, Introduction to Politics and Economics
	Understanding History and Philosophy of Science	3	HA2209	Intensive				○	○	○	○		
Foreign Language	English1	3	HA1301	Core		○						3:0:3(2)	
	English2	3	HA1302	Core			○					3:0:3(2)	English1
	English Listening & Speaking	3	HA1303	Core				●	●			3:0:3(2)	English2
	English Reading & Writing	3	HA1304	Core				●	●			3:0:3(2)	English2
	Advanced English Communication	3	HA2305	Intensive						○	○	3:0:3(2)	English Listening & Speaking, English Reading & Writing
	Current Issues in English	3	HA2304	Intensive						○		3:0:3(2)	English Listening & Speaking, English Reading & Writing
	Cultural Literacy in English	3	HA2303	Intensive							○	3:0:3(2)	English Listening & Speaking, English Reading & Writing
	Japanese Language & Culture	2	HA2407	Intensive						○	○	2:0:2(1)	
	Chinese Language & Culture	2	HA2408	Intensive						○	○	2:0:2(1)	
	Spanish Language & Culture	2	HA2409	Intensive						○	○	2:0:2(1)	
Art and PE	Music	2	HA1601	Core		●	●					1:1:2(1)	
	Art	2	HA1701	Core		●	●					1:1:2(0)	
	Physical Education1	1	HA1801	Core		○						0:1:1(0)	
	Physical Education2	1	HA1802	Core			○					0:1:1(0)	Physical Education1
	Physical Education3	1	HA1803	Core				○				0:1:1(0)	Physical Education2
	Physical Education4	1	HA1804	Core					○			0:1:1(0)	Physical Education3
	Music in Life	2	HA2601	Intensive				○	○	○	○	1:1:2(1)	Music
	Arts in Life	2	HA2701	Intensive				○	○	○	○	1:1:2(0)	Art
	Physical Education in Life 1	1	HA2801	Intensive						○		0:1:1(0)	Physical Education4
	Physical Education in Life 2	1	HA2802	Intensive							○	0:1:1(0)	Physical Education in Life 1
Convergence	Mathematical Modeling	3	MC6101	Convergence						x	○	3:0:3(4)	Calculus 2

Subject	Course Title in English	Credit	Code	Classification	AP	1st	2nd	3rd	4th	5th	6th	Lecture:Lab: Credit(HW)	Prerequisites
	Arthematics	3	MC6102	Convergence						⊖	⊖	3:0:3(2)	Calculus 1
	Creative Problem Solving	3	MC6201	Convergence					○	○	○	3:0:3(6)	Computer Science 3
	Physics in the Art	2	PE6101	Convergence				○	○	○	○	0:2:2(2)	Physics and Exp.2
	Physics in History	3	PE6102	Convergence						○	○	2:1:3(3)	General Physics1
	<u>Electrochemical Energy System</u>	3	CB6102	Convergence				●	○	●	○	3:0:3(4)	Chemistry and Exp. 2
	Human Biology	3	CB6201	Convergence					◇		◇	3:0:3(1)	General Biology1
	Forensic Science	2	CB6202	Convergence				○	●	○	●	2:0:2(1)	Chemistry and Exp. 2, Biology and Exp. 2
	Creative Conversion Design	2	KC6103	Convergence						⊖	○	0:2:2(2)	
	Creative Engineering	2	KC6102	Convergence						⊖	○	2:0:2(2)	

* 'History and Philosophy of Science' is both an intensive course in social sciences and a convergence course under the KSA curriculum for foreign students.

※ Subjects in purple will be opened in English.

※ ▲ :Select one for required subjects either 'General Astronomy and General Astronomy Lab' Or 'General Earth Science and General Earth Science Lab'.

※ Chemistry & Biology Subject :

○ : Class in Korean ● : Class in English

◎ : Class in parallel with Korean and English

◇ : Class in Korean or English (It depends on registered students and teacher)

※ Korean, Social Science, Foreign Language, Art and PE Subject : ■ & ●, Class that should be taken by semester.

※ 'Creative Conversion Design', 'Creative Engineering' : P/F grade

* If foreign students want to take 'Arts in Life' course, 'Creative Design' will be opened in 2021 spring semester.

** If foreign students want to take 'Music in Life' course, 'Basic Music Theory' will be opened in 2021 spring semester.

*** If foreign students want to take 'PE in Life1' course, 'Racket Sports' and 'Soccer & Futsal' will be opened in 2021 spring semester.

(ex) If you want to take 'Racket Sports' in the 3rd semester, Please write down 'Racket Sports' in the Notes Column on the bottom when you applying online.

※ **Special Courses and Courses Lectured by KAIST Professors**

Course Title	Teacher	Prerequisites	Notes
Special Topics in Mathematics (Logic and Set Theory)	Not decided	Calculus2	
Special Topics in Mathematics (Logic and Set Theory)	KAIST Professor	Calculus2	Lectured by KAIST Professor(Monday afternoon)
Physics Seminar	KAIST Professor	General Physics1	Lectured by KAIST Professor(Friday afternoon)
Earth Science Seminar	KAIST Professor	General Astronomy / General Earth Science	Lectured by KAIST Professor(Tuesday afternoon)

※ **Others**

- In the 5th and 6th semester, foreign students can take AP courses and elective(Intensive) courses in Earth Science.
- In case of English PT students, they can take any intensive courses from English subject which is open for the 5th, 6th semester.
- 'Application of Mathematics' course will be divided into Korean and Foreign student class.
- EC courses in mathematics are open only in the fall semester this year. (ex. Mathematics classes those are lectured in Korean will offered in both the spring and fall semester, but EC classes are only offered in the fall semester this year.)
- 'Arthematics', 'Special Topics in Earth Science(Introduction to Oceanography)' courses will not be offered in 2021 spring semester due to Department circumstances.
- 'Special Topics in Earth Science (Observational Astronomy)' will not be offered in 2021 fall semester due to Department circumstances.
- 'Creative Conversion Design' and 'Creative Engineering' courses will not offered in 2021 spring semester due to school circumstances.
- 'Chemistry in Life' will not be offered in 2021 spring semester due to Department circumstances.

(Attached 1) **Transferrable AP Courses and the Corresponding Courses at KAIST**

No.	Courses Completed from KSA of KAIST		Be transferred at KAIST as follows		Corresponding Courses at KAIST			
	Course Title	Credit	Course Title	Course Code	Course Title	Credit	Subject Code	Course Code
1	Calculus2	4	Calculus2	KSA100	Calculus I	3	B.R.	MAS101
2	Calculus3	3	Calculus3	KSA101	Calculus II	3	B.R.	MAS102
3	Linear Algebra	3	Linear Algebra	KSA102	Linear Algebra	3	B.E.	MAS109
4	Differential Equations	3	Differential Equations	KSA103	Differential Equations and Applications	3	B.E.	MAS201
5	General Physics1	4	General Physics1	KSA104	General Physics I	3	B.R.	PH141
6	General Physics Lab1	1	General Physics Lab1	KSA105	General Physics Lab I	1	B.R.	PH151
7	General Physics2	4	General Physics2	KSA106	General Physics II	3	B.R.	PH142
8	General Physics Lab2	1	General Physics Lab2	KSA107	General Physics Lab II	1	B.E.	PH152
9	General Chemistry1	4	General Chemistry1	KSA108	General Chemistry I	3	B.R.	CH101
10	General Chemistry Lab1	1	General Chemistry Lab1	KSA109	General Chemistry Experiment I	1	B.R.	CH102
11	General Chemistry2	4	General Chemistry2	KSA110	General Chemistry II	3	B.E.	CH103
12	General Chemistry Lab2	1	General Chemistry Lab2	KSA111	General Chemistry Experiment II	1	B.E.	CH104
13	General Biology1	4	General Biology1	KSA112	General Biology	3	B.R.	BS120
14	General Biology2	4	General Biology2	KSA114		3	O.E.	
15	General Biology Lab	1	General Biology Lab I	KSA113		1	O.E.	
16	General Earth Science	3	General Earth Science	KSA116		3	O.E.	
17	General Earth Science Lab	1	General Earth Science Lab	KSA117		1	O.E.	
18	General Astronomy	3	General Astronomy	KSA118		3	O.E.	
19	General Astronomy Lab	1	General Astronomy Lab	KSA119		1	O.E.	
20	Programming and Problem Solving	3	Programming and Problem Solving	KSA120	Introduction to Programming	3	B.R.	CS101
21	Elementary Number Theory	3	Elementary Number Theory	KSA121	Introduction to Number Theory	3	C.E.	MAS210
22	DNA Science	3	DNA Science	KSA122		3	O.E.	
23	Discrete Structures	3	Discrete Structures	KSA124	Discrete Mathematics	3	C.R.	CS204
24	Probability and Statistics	3	Probability and Statistics	KSA125	Probability and Statistics	3	B.E.	MAS250