**COURSE OFFERINGS**

### Science Courses

#### Biology

**BIOL UN2401 Contemporary Biology I: Biochemistry, Genetics & Molecular Biology. 3 points.**

Prerequisites: a course in college chemistry or the written permission of either the instructor or the premedical adviser. Recommended as the introductory biology course for science majors who have completed a year of college chemistry and premedical students. The fundamental principles of biochemistry, molecular biology, and genetics. Website: [http://www.columbia.edu/cu/biology/courses/c2005/index.html](http://www.columbia.edu/cu/biology/courses/c2005/index.html). BIOL UN2401/UN2402 is strongly recommended for students intending to major in the biological sciences. Corequisites: BIOL UN2501 or UN2005.

* Fee: Lab Fee - 150.00

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<th>Times/Location</th>
<th>Instructor</th>
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<tr>
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<td>T Th 4:10pm - 5:25pm Room TBA</td>
<td>Marko Jovanovic, Deborah Mowshowitz, Mary Ann Price, Michelle Attner</td>
<td>3</td>
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**BIOL UN2501 Contemporary Biology Laboratory. 3 points.**

Enrollment per section limited to 28. Lab Fee: $150.

Prerequisites: Strongly recommended prerequisite or corequisite: BIOL UN2005 or BIOL UN2401.

Experiments focus on genetics and molecular biology, with an emphasis on data analysis and experimental techniques. The class also includes a study of mammalian anatomy and histology. SPS and TC students may register for this course, but they must first obtain the written permission of the instructor, by filling out a paper Registration Adjustment Form (Add/Drop form). The form can be downloaded at the URL below, but must be signed by the instructor and returned to the office of the registrar.

* Fee: Lab Fee - 150.00

[http://registrar.columbia.edu/sites/default/files/content/reg-adjustment.pdf](http://registrar.columbia.edu/sites/default/files/content/reg-adjustment.pdf)

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<td>Claire Hazen</td>
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<tr>
<td>BIOL 2501</td>
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<td>Claire Hazen</td>
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BIOL UN2402 Contemporary Biology II: Cell Biology, Development & Physiology. 3 points.
Prerequisites: a course in college chemistry and BIOL UN2005 or BIOL UN2401, or the written permission of either the instructor or the premedical adviser.
Cellular biology and development; physiology of cells and organisms. Same lectures as BIOL UN2006, but recitation is optional. For a detailed description of the differences between the two courses, see the course web site or http://www.columbia.edu/cu/biology/ug/advice/faqs/gs.html. Website: http://www.columbia.edu/cu/biology/courses/c2006/.

SPS, Barnard, and TC students may register for this course, but they must first obtain the written permission of the instructor, by filling out a paper Registration Adjustment Form (Add/Drop form). The form can be downloaded at the URL below, but must be signed by the instructor and returned to the office of the registrar. http://registrar.columbia.edu/sites/default/files/content/reg-adjustment.pdf

Biochemistry (Strongly Recommended)
BIOC UN3300 Biochemistry. 3 points.
Prerequisites: one year each of introductory Biology and General Chemistry. Corequisites: Organic Chemistry. Primarily aimed at nontraditional students and undergraduates who have course conflicts with BIOL UN3501.

Biochemistry is the study of the chemical processes within organisms that give rise to the immense complexity of life. This complexity emerges from a highly regulated and coordinated flow of chemical energy from one biomolecule to another. This course serves to familiarize students with the spectrum of biomolecules (carbohydrates, lipids, amino acids, nucleic acids, etc.) as well as the fundamental chemical processes (glycolysis, citric acid cycle, fatty acid metabolism, etc.) that allow life to happen. In particular, this course will employ active learning techniques and critical thinking problem-solving to engage students in answering the question: how is the complexity of life possible? NOTE: While Organic Chemistry is listed as a corequisite, it is highly recommended that you take Organic Chemistry beforehand.

CHEM UN1403 General Chemistry I (Lecture). 4 points.
CC/GS: Partial Fulfillment of Science Requirement
Corequisites: MATH UN1101
Preparation equivalent to one year of high school chemistry is assumed. Students lacking such preparation should plan independent study of chemistry over the summer or take CHEM UN0001 before taking CHEM UN1403. Topics include stoichiometry, states of matter, nuclear properties, electronic structures of atoms, periodic properties, chemical bonding, molecular geometry, introduction to quantum mechanics and atomic theory, introduction to organic and biological chemistry, solid state and materials science, polymer science and macromolecular structures and coordination chemistry. Although CHEM UN1403 and CHEM UN1404 are separate courses, students are expected to take both terms sequentially. The order of presentation of topics may differ from the order presented here, and from year to year. Students must ensure they register for the recitation that corresponds to the lecture section. Please check the Directory of Classes for details.
CHEM UN1500 General Chemistry Laboratory. 3 points.
CC/GS: Partial Fulfillment of Science Requirement
Lab Fee: $140.

Corequisites: CHEM UN1403, CHEM UN1404
An introduction to basic lab techniques of modern experimental
chemistry, including quantitative procedures and chemical analysis.
Students must register for a Lab Lecture section for this course (CHEM
UN1501). Please check the Directory of Classes for details. Please note
that CHEM UN1500 is offered in the fall and spring semesters. Mandatory
lab check-in will be held during the first week of classes in both the fall
and spring semesters.

Spring 2020: CHEM UN1500
Course Number Section/Call Number Times/Location Instructor Points Enrollment
CHEM 1500 001/11597 M 1:10pm - 4:50pm 302 Havemeyer Hall Joseph Ulichny, Sarah 3 18/24
CHEM 1500 002/11598 T 1:10pm - 4:50pm 302 Havemeyer Hall Joseph Ulichny, Sarah 3 32/46
CHEM 1500 003/11625 T 6:10pm - 9:50pm 302 Havemeyer Hall Joseph Ulichny, Sarah 3 49/48
CHEM 1500 004/11626 W 1:10pm - 4:50pm 302 Havemeyer Hall Joseph Ulichny, Sarah 3 50/48
CHEM 1500 005/11627 Th 1:10pm - 4:50pm 302 Havemeyer Hall Joseph Ulichny, Sarah 3 29/46
CHEM 1500 006/11628 Th 6:10pm - 9:50pm 302 Havemeyer Hall Joseph Ulichny, Sarah 3 46/48
CHEM 1500 007/11629 F 8:40am - 12:25pm 302 Havemeyer Hall Joseph Ulichny, Sarah 3 18/46
CHEM 1500 008/11630 F 1:10pm - 4:50pm 302 Havemeyer Hall Joseph Ulichny, Sarah 3 28/26

Fall 2020: CHEM UN1500
Course Number Section/Call Number Times/Location Instructor Points Enrollment
CHEM 1500 001/10911 M 1:10pm - 4:50pm 302 Havemeyer Hall Joseph Ulichny, Sarah 3 0/46
CHEM 1500 002/10912 T 6:10pm - 9:50pm 302 Havemeyer Hall Joseph Ulichny, Sarah 3 0/46
CHEM 1500 003/10913 W 1:10pm - 4:50pm 302 Havemeyer Hall Joseph Ulichny, Sarah 3 0/46
CHEM 1500 004/10914 Th 1:10pm - 4:50pm 302 Havemeyer Hall Joseph Ulichny, Sarah 3 0/46

CHEM UN1404 General Chemistry II (Lecture). 4 points.
CC/GS: Partial Fulfillment of Science Requirement

Prerequisites: CHEM UN1403
Although CHEM UN1403 and CHEM UN 1404 are separate courses,
students are expected to take both terms sequentially. Topics include
gases, kinetic theory of gases, states of matter: liquids and solids,
chemical equilibria, applications of equilibria, acids and bases, chemical
thermodynamics, energy, enthalpy, entropy, free energy, periodic
properties, chemical kinetics, and electrochemistry. The order of
presentation of topics may differ from the order presented here, and from
year to year. Students must ensure they register for the recitation that
corresponds to the lecture section. Please check the Directory of Classes
for details.

Spring 2020: CHEM UN1404
Course Number Section/Call Number Times/Location Instructor Points Enrollment
CHEM 1404 001/11595 T Th 11:40am - 12:55pm 309 Havemeyer Hall Angelo Cacciuto 4 141/190
CHEM 1404 002/11596 M W 6:10pm - 7:25pm 301 Pupin Laboratories Robert Beer 4 218/220

Organic Chemistry
CHEM UN2443 Organic Chemistry I (Lecture). 4 points.
Prerequisites: (CHEM UN1403 and CHEM UN1404) or CHEM UN1604
The principles of organic chemistry. The structure and reactivity
of organic molecules are examined from the standpoint of modern
theories of chemistry. Topics include stereochemistry, reactions
of organic molecules, mechanisms of organic reactions, syntheses and
degradations of organic molecules, and spectroscopic techniques of
structure determination. Although CHEM UN2443 and CHEM UN2444 are
separate courses, students are expected to take both terms sequentially.
Students must ensure they register for the recitation which corresponds
to the lecture section. Please check the Directory of Classes for details.

Fall 2020: CHEM UN2443
Course Number Section/Call Number Times/Location Instructor Points Enrollment
CHEM 2443 001/11032 M W 11:40am - 12:55pm 309 Havemeyer Hall Karen Phillips 4 0/190
CHEM 2443 002/11841 T Th 1:10pm - 2:25pm 309 Havemeyer Hall Virginia Cornish 4 0/190
CHEM 2443 003/11033 M W 6:10pm - 7:25pm 301 Pupin Laboratories Charles Doubleday 4 0/120
CHEM UN2444 Organic Chemistry II (Lecture). 4 points.
Prerequisites: CHEM UN1404 or CHEM UN1604 and CHEM UN1500 and CHEM UN2443
The principles of organic chemistry. The structure and reactivity of organic molecules are examined from the standpoint of modern theories of chemistry. Topics include stereochemistry, reactions of organic molecules, mechanisms of organic reactions, syntheses and degradations of organic molecules, and spectroscopic techniques of structure determination. Although CHEM UN2443 and CHEM UN2444 are separate courses, students are expected to take both terms sequentially. Students must ensure they register for the recitation which corresponds to the lecture section. Please check the Directory of Classes for details.

CHEM UN2493 Organic Chemistry Laboratory I (Techniques). 0 points.
Lab Fee: $63.00
Prerequisites: (CHEM UN1403 and CHEM UN1404) or (CHEM UN1604 and CHEM UN1507)
Corequisites: CHEM UN2443
Techniques of experimental organic chemistry, with emphasis on understanding fundamental principles underlying the experiments in methodology of solving laboratory problems involving organic molecules. Attendance at the first lab lecture and laboratory session is mandatory. Please note that CHEM UN2493 is the first part of a full year organic chemistry laboratory course. Students must register for the lab lecture section (CHEM UN2493) which corresponds to their lab section. Students must attend ONE lab lecture and ONE lab section every other week. Please contact your advisers for further information.

CHEM UN2494 Organic Chemistry Laboratory II (Synthesis). 1.5 point.
Lab Fee: $62.00
Prerequisites: (CHEM UN1403 and CHEM UN1404) and CHEM UN1500 and CHEM UN2493
Corequisites: CHEM UN2444
Please note that you must complete CHEM UN2493, or the equivalent, before you register for CHEM UN2494. This lab introduces students to experimental design and trains students in the execution and evaluation of scientific data. The technique experiments in the first half of the course (CHEM UN2493) teach students to develop and master the required experimental skills to perform the challenging synthesis experiments in the second semester. The learning outcomes for this lab are the knowledge and experimental skills associated with the most important synthetic routes widely used in industrial and research environments. Attendance at the first lab lecture and laboratory session is mandatory. Please note that CHEM UN2494 is the second part of a full year organic chemistry laboratory course. Students must register for the lab lecture section (CHEM UN2496) which corresponds to their lab section. Students must attend ONE lab lecture and ONE lab section every other week. Please contact your advisers for further information.

Spring 2020: CHEM UN2444

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<td>Karen Phillips</td>
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<td>002/12219</td>
<td>M W 6:10pm - 7:25pm 309 Havemeyer Hall</td>
<td>Charles</td>
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Physics

PHYS UN1201 General Physics I. 3 points.
CC/GS: Partial Fulfillment of Science Requirement

Prerequisites: some basic background in calculus or be concurrently taking MATH UN1101 Calculus I., The accompanying laboratory is PHYS UN1291-UN1292

The course will use elementary concepts from calculus. The accompanying laboratory is PHYS UN1291 - UN1292. Basic introduction to the study of mechanics, fluids, thermodynamics, electricity, magnetism, optics, special relativity, quantum mechanics, atomic physics, and nuclear physics.

Spring 2020: PHYS UN1201
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
PHYS 1201 | 001/15888 | M W 5:40pm - 6:55pm
428 Pupin Laboratories | 70/130 |

PHYS UN1291 General Physics Laboratory. 1 point.
Same course as PHYS W1291x, but given off-sequence.

Corequisites: PHYS UN1201
This course is the laboratory for the corequisite lecture course and can be taken only during the same term as the corresponding lecture.

Spring 2020: PHYS UN1291
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
PHYS 1291 | 001/15923 | M 1:00pm - 4:00pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1291 | 002/15924 | M 7:30pm - 10:30pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1291 | 003/15927 | T 1:00pm - 4:00pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1291 | 004/15928 | T 4:10pm - 7:10pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1291 | 005/15929 | W 1:00pm - 4:00pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1291 | 007/15932 | Th 1:00pm - 4:00pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |

PHYS UN1292 General Physics Laboratory II. 1 point.
Corequisites: PHYS UN1201, PHYS UN1202
This course is the laboratory for the corequisite lecture course (PHYS UN1201 - PHYS UN1202) and can be taken only during the same term as the corresponding lecture.

Spring 2020: PHYS UN1292
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
PHYS 1292 | 001/15936 | M 1:00pm - 4:00pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1292 | 002/15937 | M 1:00pm - 4:00pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1292 | 003/15938 | M 4:10pm - 7:10pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1292 | 004/15939 | M 4:10pm - 7:10pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1292 | 005/15940 | M 7:30pm - 10:30pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1292 | 007/15941 | T 1:00pm - 4:00pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1292 | 008/15942 | T 1:00pm - 4:00pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1292 | 009/15943 | T 4:10pm - 7:10pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1292 | 010/15944 | T 4:10pm - 7:10pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1292 | 011/15945 | T 7:30pm - 10:30pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1292 | 013/15946 | W 1:00pm - 4:00pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1292 | 014/15947 | W 1:00pm - 4:00pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1292 | 015/15948 | W 4:10pm - 7:10pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1292 | 017/15951 | W 7:30pm - 10:30pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1292 | 018/15953 | Th 1:00pm - 4:00pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1292 | 019/15954 | Th 1:00pm - 4:00pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1292 | 020/15955 | Th 4:10pm - 7:10pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1292 | 022/15957 | Th 7:30pm - 10:30pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
PHYS 1292 | 023/15956 | F 1:00pm - 4:00pm
5th Flr Pupin Laboratories Cambareri | Giuseppina |
Mathematics Courses

Calculus

MATH UN1101 Calculus I. 3 points.
Prerequisites: (see Courses for First-Year Students). Functions, limits, derivatives, introduction to integrals, or an understanding of pre-calculus will be assumed.

The Help Room in 333 Milbank Hall (Barnard College) is open during the day, Monday through Friday, to students seeking individual help from the teaching assistants. (SC)

Spring 2020: MATH UN1101
Course Number Section/Call Number Times/Location Instructor Points Enrollment
MATH 1101 001/13846 M W 11:40am - 12:55pm 407 Mathematics Building Cailan Li 3 21/30

MATH 1101 002/12024 M W 2:40pm - 3:55pm 203 Mathematics Building Akash Sengupta 3 72/110

MATH 1101 003/12025 M W 6:10pm - 7:25pm 407 Mathematics Building Gerhardt Hinkle 3 21/30

MATH 1101 004/12026 T Th 10:10am - 11:25am 203 Mathematics Building Alexandra Sengupta 3 85/110

MATH 1101 005/12027 T Th 11:40am - 12:55pm 203 Mathematics Building William Chen 3 44/110

Fall 2020: MATH UN1101
Course Number Section/Call Number Times/Location Instructor Points Enrollment
MATH 1101 002/11292 M W 10:10am - 11:25am Room TBA Daniele Alessandrini 3 0/116

MATH 1101 003/11293 M W 11:40am - 12:55pm Room TBA Daniele Alessandrini 3 0/116

MATH 1101 004/11294 M W 1:10pm - 2:25pm Room TBA Akash Sengupta 3 0/110

MATH 1101 005/11295 M W 2:40pm - 3:55pm Room TBA Akash Sengupta 3 0/110

MATH 1101 006/11296 M W 4:10pm - 5:25pm Room TBA 3 0/30

MATH 1101 007/11297 T Th 10:10am - 11:25am Room TBA George Dragomir 3 0/100

MATH 1101 008/11298 T Th 11:40am - 12:55pm Room TBA 3 0/30

MATH 1101 009/11299 T Th 1:10pm - 2:25pm Room TBA George Dragomir 3 0/100

MATH 1101 010/11300 T Th 4:10pm - 5:25pm Room TBA 3 0/100

MATH UN1102 Calculus II. 3 points.
Prerequisites: MATH UN1101 or the equivalent. Methods of integration, applications of the integral, Taylor’s theorem, infinite series. (SC)

Spring 2020: MATH UN1102
Course Number Section/Call Number Times/Location Instructor Points Enrollment
MATH 1102 001/12029 M W 1:10pm - 2:25pm 207 Mathematics Building Yi Sun 3 43/125

MATH 1102 002/12030 M W 2:40pm - 3:55pm 407 Mathematics Building Semen Rezchikov 3 32/35

MATH 1102 003/12031 T Th 11:40am - 12:55pm 207 Mathematics Building Michael Woodbury 3 51/125

MATH 1102 004/12032 T Th 6:10pm - 7:25pm 407 Mathematics Building Iakov Kononov 3 18/30

Fall 2020: MATH UN1102
Course Number Section/Call Number Times/Location Instructor Points Enrollment
MATH 1102 001/11302 M W 11:40am - 12:55pm Room TBA 3 0/30

MATH 1102 002/11303 M W 2:40pm - 3:55pm Room TBA 3 0/30

MATH 1102 003/11304 M W 4:10pm - 5:25pm Room TBA 3 0/110

MATH 1102 004/11305 T Th 10:10am - 11:25am Room TBA 3 0/110

MATH 1102 005/00434 T Th 2:40pm - 3:55pm Room TBA Lindsay Piechnik 3 0/239

MATH 1102 006/11306 T Th 6:10pm - 7:25pm Room TBA Elliott Stein 3 0/64

Statistics

STAT UN1101 Introduction to Statistics. 3 points.

Prerequisites: intermediate high school algebra.

Designed for students in fields that emphasize quantitative methods.

Graphical and numerical summaries, probability, theory of sampling distributions, linear regression, analysis of variance, confidence intervals and hypothesis testing. Quantitative reasoning and data analysis.

Practical experience with statistical software. Illustrations are taken from a variety of fields. Data-collection/analysis project with emphasis on study designs is part of the coursework requirement.

Spring 2020: STAT UN1101
Course Number Section/Call Number Times/Location Instructor Points Enrollment
STAT 1101 001/46713 M W 8:40am - 9:55am 602 Hamilton Hall Banu Baydil 3 72/86

STAT 1101 002/46714 T Th 10:10am - 11:25am 702 Hamilton Hall David Rios 3 60/86

STAT 1101 003/46715 T Th 6:10pm - 7:25pm 602 Hamilton Hall Yi Sun 3 58/86

Fall 2020: STAT UN1101
Course Number Section/Call Number Times/Location Instructor Points Enrollment
STAT 1101 001/12835 M W 8:40am - 9:55am Room TBA Banu Baydil 3 0/86

STAT 1101 002/12889 T Th 6:10pm - 7:25pm Room TBA Yi Sun 3 0/86

STAT 1101 003/12837 T Th 6:10pm - 7:25pm Room TBA Tian Zheng 3 0/50
Psychology (Recommended)

PSYC UN1001 The Science of Psychology. 3 points.
CC/GS: Partial Fulfillment of Science Requirement
Enrollment may be limited. Attendance at the first two class periods is mandatory.

Prerequisites: BLOCKED CLASS. EVERYONE MUST JOIN WAITLIST TO BE ADMITTED

Broad survey of psychological science including: sensation and perception; learning, memory, intelligence, language, and cognition; emotions and motivation; development, personality, health and illness, and social behavior. Discusses relations between the brain, behavior, and experience. Emphasizes science as a process of discovering both new ideas and new empirical results. PSYC UN1001 serves as a prerequisite for further psychology courses and should be completed by the sophomore year.

Spring 2020: PSYC UN1001

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<th>Instructor</th>
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<td>PSYC 1001</td>
<td>001/11768</td>
<td>T Th 1:10pm - 2:25pm 501 Schermerhorn Hall</td>
<td>Patricia Lindemann</td>
<td>3</td>
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<td>PSYC 1001</td>
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<td>M W 1:10pm - 2:25pm 501 Schermerhorn Hall</td>
<td>Svetlana Rosis</td>
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Fall 2020: PSYC UN1001

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