

Syllabus®
Comprehensive General Chemistry (CHEM 1310 A)
Fall 2022

Updated 8/17/22

Instructor: Dr. Beulah Narendrapurapu
Office: Chemistry Bldg. 2215
Office Hours: MW-11:00AM -12:30 AM (or by appointment)
E-mail: bnarendrapurapu@georgiasouthern.edu
Phone: (912) 478-5876

Lecture: TR 9:30-10:45 PM (IT Bldg. 1004)

Lab: One of the following four times depending on the lab section you registered into. Check schedule posted on Folio to know where to meet.

CHEM 1310 AA/AB: Thu 11:00-1:50 PM (Lab Instructor: Dr. James Carter)

CHEM 1310 AE/AF: Fri 8:00-10:50 AM (Lab Instructor: Dr. Narendrapurapu)

CHEM 1310 BC/BD: Fri 11:15-2:05 PM (Lab Instructor: Dr. Narendrapurapu)

See schedule posted on Folio (Navigate to Content > Syllabus and Schedule > Schedule).

Supplementary Instruction (SI) Schedule: Mon, Wed 6:30-7:30pm in Nursing/Chemistry Building Room 3241. SI starts from Wednesday 8/17.Week-2.

Course Website: Folio at my.georgiasouthern.edu (You must check the course site regularly for announcements, homework, power points, lab grades, quiz/exam grades, practice problems, etc.)

Important Dates

Aug 15: Drop/Add period ends

Sept 5: Labor Day Holiday. Administrative Offices closed. No class/Lab/SI.

Oct 6: Last day to withdraw without academic penalty.

Nov 21-25: Thanksgiving Holidays.

Dec 6 (Tuesday): Final Exam. 10:00 am – 12:00 pm

Course Description

Course Prerequisite: Ability to use College Algebra. Prior completion of a high school chemistry course is assumed. This course is designed to meet general chemistry requirements of engineering students. It is an accelerated introductory course emphasizing the fundamentals of chemistry to prepare students for further study in the sciences and engineering. We will cover the fundamentals of atomic structure and theories of chemical reactions. Topics include atomic structure, stoichiometry, properties of matter; chemical thermodynamics, electrochemistry, and kinetics. Other topics may be included as deemed necessary.

Some topics in the course are taught in Flipped classroom format. You are expected to watch video before meeting for class. Class time will focus on problem solving after a brief iClicker quiz. Print the chapter worksheets before you come to class and take notes on the worksheets.

Research Statement:

Protocol #: H22387

Title: Study of impact of self-assessment questions with supporting videos on student learning in the Comprehensive General Chemistry course (CHEM 1310)


I am working on a research project that seeks to investigate how students benefit from self-assessment questions and video resources that support metacognition. I plan to use this research to help me better design study aids and supporting resources for this course. In this course, you will complete five to six self-assessment assignments (aka, concept practice) on Folio that were designed to help you develop problem solving skills. Each can be completed from home and will take about 30-45 minutes. These are exercises that you would normally do, regardless of my research. I plan to analyze your work on these assignments and your final exam responses for my research, only after the semester is over and the grades have been submitted. Your name and any identifying information will be removed prior to analysis.

You will not be identified by name in the data set or any reports using information obtained from this study, and your confidentiality as a participant in this study will remain secure. Subsequent uses of records and data will be subject to standard data use policies which protect the anonymity of individuals and institutions. We anticipate that the knowledge gained during this educational study may lead to dissemination primarily, by, but not limited to, scientific publication. The results will be presented only as an aggregate and will not include any identifying information.

If you are under age 18 or have an objection to your data being included in my analysis, I would ask you to email Dr. Leah Williams (lcwilliams@georgiasouthern.edu) so that she can remove you from the study. However, you will still do the same work as the rest of the class. Please contact me or Dr. Leah Williams if you have any questions or concerns about this research.

General Research Statement: Other exam/assignment data could be used for research purposes in future when deemed necessary to aid the development of enhanced course resources and delivery upon receiving permission from Internal Review Board (IRB). All identifying information will be removed prior to analysis. The knowledge gained from any research studies may lead to dissemination primarily by, but not limited to, scientific publications. The results will be presented only as an aggregate and will not include any identifying information.

Supplies

- **E-text (available for free):** CHEM 1310 Libguide: <https://georgiasouthern.libguides.com/chem1310>
You are encouraged to read the textbook to get a rounded understanding of concepts and complete the end-of-the-chapter problems sets and self-assessment questions to practice for quizzes and exams.
- **Laboratory Manual (required):**
Chemistry 1310 Laboratory Manual, 2022-2023 edition. Will become available in bookstore for purchase.
- **Achieve Homework platform.**
You have day-1 access to Folio for which you are automatically registered into Achieve (paid through tuition).
To have access to Achieve Homepage or Homework assignments, login into your Folio account. Click on "Content" at the top of the page. Click on "**Achieve Homework Links**" module on the left. This module contains links to each homework and Achieve Homepage. To access a homework, just click on the homework link.
Other than homework assignments, Achieve also has practice assignments such as adaptive quizzes (for practice only). Click on "**Achieve Home Page**" link and then click on "**Achieve**" (first link). Once you are on Achieve homepage, click on the box beside "Viewing By" and select "**Course Content**" as shown below. In each chapter folder, you will see homework as well as practice assignments.


VIEWING BY: Course Content ▼
- **iClicker Reef.** You have free access to iClicker Reef through Achieve, however you must register on the iClicker website into the course using the **access code: F119E7490C8A**. **Instructions to register are on Folio.**
 - 1) Login into your Folio Account. Click on "Content" tab the top left of the page. Navigate to the following module: Content > **Course Orientation — start Here**
 - 2) Click on "**iClicker Student Registration Instructions- Start Here**". Follow the prompts and complete all steps listed on the document. The steps in the document will also guide you through how to sync your iClicker to Folio. Be sure to complete all steps (steps 1 to 5) in the document. **If you do not complete step-3 and enter the access code, the iClicker registration will expire after a few days.**
- **Other Required Supplies:**
Splash proof laboratory safety goggles (NOT safety glasses!);
5 scantron sheets (scroll down to see an image of the kind of scantron you need) for all exams;

Course Objectives

At the end of this course, student should be able to:

- Demonstrate the understanding of the basic terms and concepts of chemistry in explaining and classifying matter
- Demonstrate the ability to solve quantitative problems using dimensional analysis
- Demonstrate the ability to solve stoichiometry problems using appropriate conversion factors
- Demonstrate the ability to explain chemical and physical properties of elements using the periodic table
- Demonstrate the ability to explain chemical and physical properties of materials in terms of microscopic (atomic and molecular) structure
- Demonstrate the understanding of the common types of chemical reactions
- Demonstrate the ability to deduce shapes of molecules based upon their electronic structure
- Demonstrate the ability to relate physical properties of materials on geometry and intermolecular interactions
- Demonstrate the understanding of basic chemical thermodynamics and kinetics including the knowledge of the factors controlling rates of reactions and how they influence equilibrium concentrations
- Demonstrate basic understanding of acid/base and redox reactions
- Perform basic chemistry/laboratory experiments that manipulate chemical equipment, glassware, and measurement instrumentation
- Demonstrate the understanding of the uncertainty in measurement and its propagation

Grades: The following are the item contributions towards your final grade:

| | |
|---|---|
| Exams: 35% | <p>There will be 4 term exams that will last for the entire class period. Exams will be all multiple choice. None of the exams will be dropped. The term exams cover material since the previous exam as well as some amount of the comprehensive material. This underlines the connectedness/building-up/snowballing nature of chemistry. Additionally, it helps retain the material better, thereby, aids in preparing for the Final – which is comprehensive. There will be no make-up if you miss an exam.</p> <p>Be sure to bring the correct scantron (F-1712) to the exam. A picture of the correct type of scantron is on the last page of this syllabus.</p> |
| Final Exam: 15% | Final exam is comprehensive exam and includes questions from all topics. It is all multiple choice and is a 2-hour exam. Scantron is needed for the Final Exam. |
| Labs: 25% | <p>Each lab is scored for 25 points (5 points for the Pre-lab+ 20 points for lab report). Pre-lab assignments are in the lab manual and the completed pages must be turned-in at the beginning of the lab period assignment. Lab report (ie. completed lab pages) is due at the end of each lab period. You must come prepared to finish the lab in time.</p> <p>Note that since 20% of each lab comes from pre-labs, ignoring pre-lab assignments can significantly lower your lab average.</p> |
| Achieve Homework: 10% | <p>There are 10 homework assignments during the semester, 10 points apiece. Homework is assigned on Achieve website. Homework is due on Sundays at 11:59 p.m.</p> <p>Save your work so you can review for exams.</p> |
| Concept Quizzes 10% | <p>There will be 6 quizzes on Folio, each containing 4 to 5 questions on a concept (see schedule). Each quiz is worth 20 points and has two parts: A video with embedded questions (5 points) and multiple-choice quiz (15 points). You must complete both. Save your work so you can review for exams.</p> <p>You may take up to 3 attempts on each quiz and the highest score will be the quiz score. Note that questions may be different on each attempt (but the concepts are the same). Deadline for concept quizzes: Friday, 11:59 pm.</p> |
| iClicker + Worksheets + Discussion 5% | <p>There will be iClicker quizzes, worksheets during lectures and discussion topics on Folio. The iClicker quizzes will be based on previous classes material and that day's material. Completed worksheet question(s) may be collected at the end of the lecture period. Deadlines for any discussion topics will be announced in class.</p> <p>Score = (points earned on iClicker + worksheet) / Total Number of points × 100</p> |

Formula to calculate your grade before the final:

$$[(0.35 \times \text{Exam average}) + (0.25 \times \text{lab percentage including prelabs}) + (0.1 \times \text{homework percentage}) + (0.1 \times \text{quiz average}) + (0.05 \times (\text{iClicker} + \text{Worksheet} + \text{Discussion percentage}))] / 80 \times 100$$

| Grade | % Bracket |
|-------|---------------|
| A | A ≥ 90% |
| B | 90% > B ≥ 80% |
| C | 80% > C ≥ 70% |
| D | 70% > D ≥ 60% |
| F | F < 60% |

You are expected to calculate your grade on your own based on the above item contributions. The instructor reserves the right to change your seating at any time during an examination.

Term-Exam and homework dates are on the tentative schedule posted on Folio (See Content > Course Orientation, Syllabus and Schedule > Schedule). You must check this often and adhere to the deadlines, exam/homework/concept quiz deadlines, lab schedule and lab room numbers. The instructor may change the dates as deemed necessary. Any changes in the dates will be announced in class or through Folio email. Check Folio often to see course announcements (you are recommended to set-up email forward from Folio to your georgiasouthern email account so you don't miss my Folio emails).

Email Etiquette: It is important that you write emails professionally to receive a response. Refer to the email etiquette in this link: <https://cec.georgiasouthern.edu/advisement/files/Use-Email-Etiquette.pdf>. I will try my best to respond to your email in 24 hours. If not, feel free to send me a reminder.

Make-up Policy

Exams, homework, quizzes or other assignments cannot be made-up. If you are absent for an exam the exam score will be a zero and will be considered as the lowest scoring exam that will be substituted with the Final Exam. If you are absent for a lab, you have three working days (including the missed lab day) to turn in documentation in order to be considered for an excused absence. Relevant documents such as medical or preapproved "school authorized" documents must be dated. Deadlines for homework concept quizzes and prelabs will not be extended.

Attendance

Since we learn large amount of material in each class, attendance is required. I will keep an active log of attendance using iClicker Reef. If you miss a class, you will miss that day's iClicker/Worksheet points. Research shows a strong correlation shown between attendance and performance, so, attend all classes.

If you must be absent for a class in an unavoidable circumstance, make sure you learn about what is taught in the class from a fellow classmate, read the textbook and learn the material before the next class meeting. As each class builds on what is taught in previous class, this is necessary to follow next class and not fall behind.

Preparation for Class:

Some topics in this course are taught in a flipped classroom format. This means for some topics (see schedule), you are assigned one or two videos that you are expected to watch before coming to class. Class will begin with a quiz based on the video you have watched. The material in the video will not be taught in the class again but any related questions will be answered. The rest of the class will build on the assigned video and may require you to complete a worksheet, so it is important to come prepared to complete the class activities.

Mask Policy: For your protection and protection of others, you are encouraged to wear masks during the class and lab meetings.

Electronic Devices Policy

Use of cell phones (for purposes other than class activities), earphones, iPod/PDA devices is strictly forbidden during a lecture and on exams. Please turn your cellphones to silent mode during lectures. There will be absolutely no texting during class. Students not participating in appropriate classroom behavior as defined by

The Student Code of Conduct (<http://deanofstudents.georgiasouthern.edu/conduct/student-code-of-conduct/>) may be asked to leave the classroom.

In the event of:

Please note that in the event of cancellation of classes due to inclement weather, reading material, lectures videos and worksheets will be made available on Folio. You are expected to study the assigned topics, complete the worksheets, and turn them in on the date they are due.

Student Code of Conduct and Academic Dishonesty

Georgia Southern University conveys high expectations for appropriate behavior and is designed to assist students in the development of an informed set of values, ethics, and beliefs. It fosters a climate that promotes civility and respect. Georgia Southern University students are expected to engage in behaviors that are consistent with the attainment of academic integrity and moral values. As members of the campus community, students are encouraged to actively support ethical behavior in all aspects of University and community living. Students are encouraged to support civil discourse among all members of the campus community, treating each student with dignity and respect regardless of personal differences.

Academic misconduct includes copying material in lab, copying the pre-lab, review exams or homework from the work of other students, looking at quizzes or exams of other students during class, etc. In an event of academic misconduct, the case will be reported to the Office of Student Conduct and the student will also receive a grade of "F" in the course.

The Georgia Southern University Honor Code states: "I will be academically honest in all of my course work and will not tolerate the academic dishonesty of others." As members of the campus community, students are encouraged to actively support academic honesty and integrity in the classroom.

American with disabilities act (ADA)

If a student has a disability that qualifies under the American with Disabilities Act (ADA) and requires accommodations, he/she must follow University policy by furnishing the professor with an accommodation letter from the Student Disability Resource Center (SDRC). The SDRC can be reached at 912-478-1566.

USG Campus Carry Policy

USG Guidelines are found at

https://www.usg.edu/assets/usg/docs/USG_HB_280_Guidance_%28003%29.pdf

Diversity Statement

"I consider this classroom to be a place where you will be treated with respect and where you will treat others with respect. I welcome individuals of all ages, backgrounds, beliefs, ethnicities, genders, gender identities, gender expressions, national origins, religious affiliations, sexual orientations, abilities, military status---and other visible and non-visible differences.

All members of this class are expected to contribute to a respectful, welcoming, and inclusive environment for every other member of the class. Multicultural and intercultural awareness and competencies are key leadership skills, which will serve you well in this classroom, the education environment, and in life.

If you feel I am not providing an inclusive environment in the classroom setting, please let me know I can do so for you."

Important Laboratory Policies and Safety

Lab grade is part of the overall grade. If you miss more than 3 labs, the laboratory portion will be zero. During the semester we alternate between wet and dry labs. Please see the schedule on Folio (see **Couse Orientation, Syllabus and Schedule** module) to know where to meet for each lab. Some topics are exclusively taught through labs. So, the lab portion may not always align with the lecture. You are expected to read the textbook and the lab manual and complete the graded pre-lab assignments before coming to the lab.

(1) The Laboratory Dress Code is mandatory for all Chemistry wet labs. Students who do not comply with the Laboratory Dress Code will not be permitted to participate in laboratory assignments and will not be able to make-up the lab. Lab instructors will decide whether or not a student is in compliance with this Laboratory Dress Code:

- A. Splash proof safety goggles (not safety glasses) approved by the lab instructor.
- B. Closed shoes - toes & heel must be covered
- C. FULL pants or skirt that cover the ankle. No sheer fabric as it will not protect your skin in case of an accidental spill. (No distressed jeans as they expose your skin and do not protect it in case of a spill).
- D. Shirt or blouse must have sleeves (full sleeves are not required)
- E. No exposed midriiffs.



safety goggles (this is what you need)



safety glasses (these are NOT the right kind)

This code establishes the minimum level of personal protection required by the Chemistry department. Students must wear additional protection as directed by their laboratory instructor based on the experiment or chemicals at hand.

(2) Splash goggles must be work all the time during the lab. If you remove safety goggles, we will remind you once. If we have to remind you a second time, 20% will be deducted from the lab report.

(3) Be on time for the lab. There will be a 5 to 15-minute pre-lab lecture at the beginning of each lab. You are expected to be present for the pre-lab lecture. Completed Pre-laboratory exercises from the lab manual are required for each laboratory and are due at the beginning of the lab before the prelab lecture starts. If you are late to the lab, prelab will not be accepted. Each prelab is worth 5 points. The completed lab report is due at the end of the lab and is worth 20 points.

(4) You cannot be more than 15 minutes late to the lab. If you arrive 15 minutes after lab starts, you will not be permitted to participate in that day's lab.

(6) Cleaning up is part of your lab grade. If your work-station is not cleaned, glassware not put away or chemicals are spilled in your cabinet, then 20% will be deducted from your lab. Each week, a lab teaching assistant will sign the lab-report after checking that your workspace is cleaned-up. Labs that are not signed will not be graded.

(7) Lab check-out is normally done on the last normal Lab week. One must arrange to check out of the lab even in the case of dropping the course. Failure to complete the checkout procedure could result in an incomplete "I" for the course. Failure to check out in case of a dropped class could put a hold on the grades.

(8) A clean laboratory is necessary for your safety as much as the safety of others. Please, apply the necessary care and courtesy to keep the laboratory in good shape (in particular when chemicals are handled), use proper disposals, keep common areas and your lab bench clean, and help to maintain a safe environment. Let your instructor know of any (even very small) chemical spills, only then can appropriate clean-up procedures be applied. Do not touch any broken glass- let your instructor or teaching assistant handle that for you.

(9) Laboratory Attendance: There are two kinds of absences: excused and unexcused.

If the absence is unexcused, the student receives a "0" for the missed laboratory exercise. (*applies to first three absences*)

If the absence is excused upon provision of proper documentation, the missed lab will be replaced with average of other labs ONLY ONCE. For upto a maximum of one additional excused absence or the first unexcused absence, the student will have to make-up the missed lab by completing a makeup laboratory experiment or an additional Achieve assignment which will be announced towards the end of the semester.

If a student misses a fourth laboratory session (excused, unexcused or any combination thereof), the student earns a zero for the laboratory portion of the course. *Justification:* A student missing four laboratory sessions has missed one third of the laboratory exercises. As a result, the student has not been sufficiently exposed to chemical methods, and furthermore, because chemistry is a "hands on" science, the student should get no credit for the laboratory portion of the course.

(10) Read the lab manual and come prepared for the lab so you complete the experiment in time. For the dry labs, we will be using "chemcollective" website. Attendance is mandatory for both wet and dry labs. Familiarize yourselves with the website before the lab.

Tips for Success:

- **Prepare for the lectures:** Read the textbook before you come for lectures. If you are specifically asked to complete a task before coming to a lecture, complete it. The lecture will be presented assuming that you have completed the tasks. You may be lost in the lecture if you do not prepare. Print the PowerPoint slides and look through the outline to have an idea of concepts that will be taught in each lecture. Having an idea of what will be taught will prepare you mentally to understand the topics better.
- **Take good notes:** Take good notes during lectures. If you cannot complete a problem during class, make sure to review the textbook and complete it after class.
- **Review after each lecture:** Review the material and problems on the slides after each lecture. Summarize the main points in your own words, thereby creating your own study guide for exams. If any of the material is not clear, be sure to review the concept again from the textbook. The Libguide textbook has

videos and worked-out examples that you can review. Be sure to attend SI or office hours to get any questions answered.

- **Practice:** Work through the (Achieve) homework on your own. Practice the self-assessment multiple choice questions and the end-of-the-chapter questions on the Libguide Textbook. Glancing at already worked-out solutions does not count as practice. When you practice, cover the solutions. If you are stuck, look at a solution for a similar problem and then get back to the problem. You need to practice until you are able to solve a similar problem on the concept on your own without any help. Review any confusing parts of the problem. Use the periodic table and information page posted on folio (see the Course Orientation folder) while practicing. You are required to know any information/formula that is not on the information page.

It is recommended that you follow these steps when solving numerical problems.

1. **State:** State what is given and what is being asked.
2. **Plan:** Identify the correct formula/conversion factors and the necessary steps to get from what is given to what is asked.
3. **Calculate:** Calculate the answer.
4. **Check:** Check if your answer makes sense.

After working out a problem, practice asking questions such as (1) does the answer make sense (2) what concept/formula is involved in the problem and what quantities are being connected in a problem (3) how to identify this problem on the exam. On the exam, it becomes important to recognize the correct formula or concept for a question. So, practice connecting and comparing problems when you are studying is also important when studying.

- **Do not wait:** Do not wait until we have finished covering a chapter to work on chapter problems. Start practicing questions from the LibGuide Textbook, especially the self-assessment questions and end-of-the-chapter problems at least 2 weeks before an exam.
- **Organize your time:** As a rule of thumb, you are expected to spend at least two hours of time outside of class studying and preparing assignments for every one hour of time spent in the classroom.
- **Ask Questions:** Feel free to ask questions during class. Resolve questions as soon as they arise, not days after they develop. Take advantage of office hours or set up meeting times to get your questions answered. Ask questions during supplemental instruction (SI) sessions.

Final Word

Please communicate if there are any issues or problems about the class or the materials herein. I will do my best to resolve them.

Copyrights:

This syllabus and other course worksheets and materials are copyrighted to the instructor and cannot be published on websites other than Georgia Southern folio site for commercial or non-commercial purposes.

STUDENT ENROLLMENT SHEET

| I.D. NUMBER | | PHONE NUMBER | | TEARS PAGES |
|-------------|-----|--------------|-----|---|
| 1 | 2 | 3 | 4 | |
| 1 | 2 | 3 | 4 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 |
| 5 | 6 | 7 | 8 | |
| 9 | 10 | 11 | 12 | |
| 13 | 14 | 15 | 16 | |
| 17 | 18 | 19 | 20 | |
| 21 | 22 | 23 | 24 | |
| 25 | 26 | 27 | 28 | |
| 29 | 30 | 31 | 32 | |
| 33 | 34 | 35 | 36 | |
| 37 | 38 | 39 | 40 | |
| 41 | 42 | 43 | 44 | |
| 45 | 46 | 47 | 48 | |
| 49 | 50 | 51 | 52 | |
| 53 | 54 | 55 | 56 | |
| 57 | 58 | 59 | 60 | |
| 61 | 62 | 63 | 64 | |
| 65 | 66 | 67 | 68 | |
| 69 | 70 | 71 | 72 | |
| 73 | 74 | 75 | 76 | |
| 77 | 78 | 79 | 80 | |
| 81 | 82 | 83 | 84 | |
| 85 | 86 | 87 | 88 | |
| 89 | 90 | 91 | 92 | |
| 93 | 94 | 95 | 96 | |
| 97 | 98 | 99 | 100 | |
| 101 | 102 | 103 | 104 | |
| 105 | 106 | 107 | 108 | |
| 109 | 110 | 111 | 112 | |
| 113 | 114 | 115 | 116 | |
| 117 | 118 | 119 | 120 | |
| 121 | 122 | 123 | 124 | |
| 125 | 126 | 127 | 128 | |
| 129 | 130 | 131 | 132 | |
| 133 | 134 | 135 | 136 | |
| 137 | 138 | 139 | 140 | |
| 141 | 142 | 143 | 144 | |
| 145 | 146 | 147 | 148 | |
| 149 | 150 | 151 | 152 | |
| 153 | 154 | 155 | 156 | |
| 157 | 158 | 159 | 160 | |
| 161 | 162 | 163 | 164 | |
| 165 | 166 | 167 | 168 | |
| 169 | 170 | 171 | 172 | |
| 173 | 174 | 175 | 176 | |
| 177 | 178 | 179 | 180 | |
| 181 | 182 | 183 | 184 | |
| 185 | 186 | 187 | 188 | |
| 189 | 190 | 191 | 192 | |
| 193 | 194 | 195 | 196 | |
| 197 | 198 | 199 | 200 | |

SCORE SHEET

| 1 | | 2 | | 3 | | 4 | | 5 | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 |
| 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
| 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 |
| 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 |
| 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 |
| 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 |
| 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 |
| 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 |
| 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 |
| 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 |

LAST NAME **FIRST NAME** **ALL** **DOB**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120

121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140

141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160

161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180

181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

200 questions
(pink / orange)

Mini Blue Book

NAME _____

SUBJECT _____

DATE _____

HOUSING _____

ADDRESS _____

PHONE NUMBER _____

#F-1712

Ruled on back