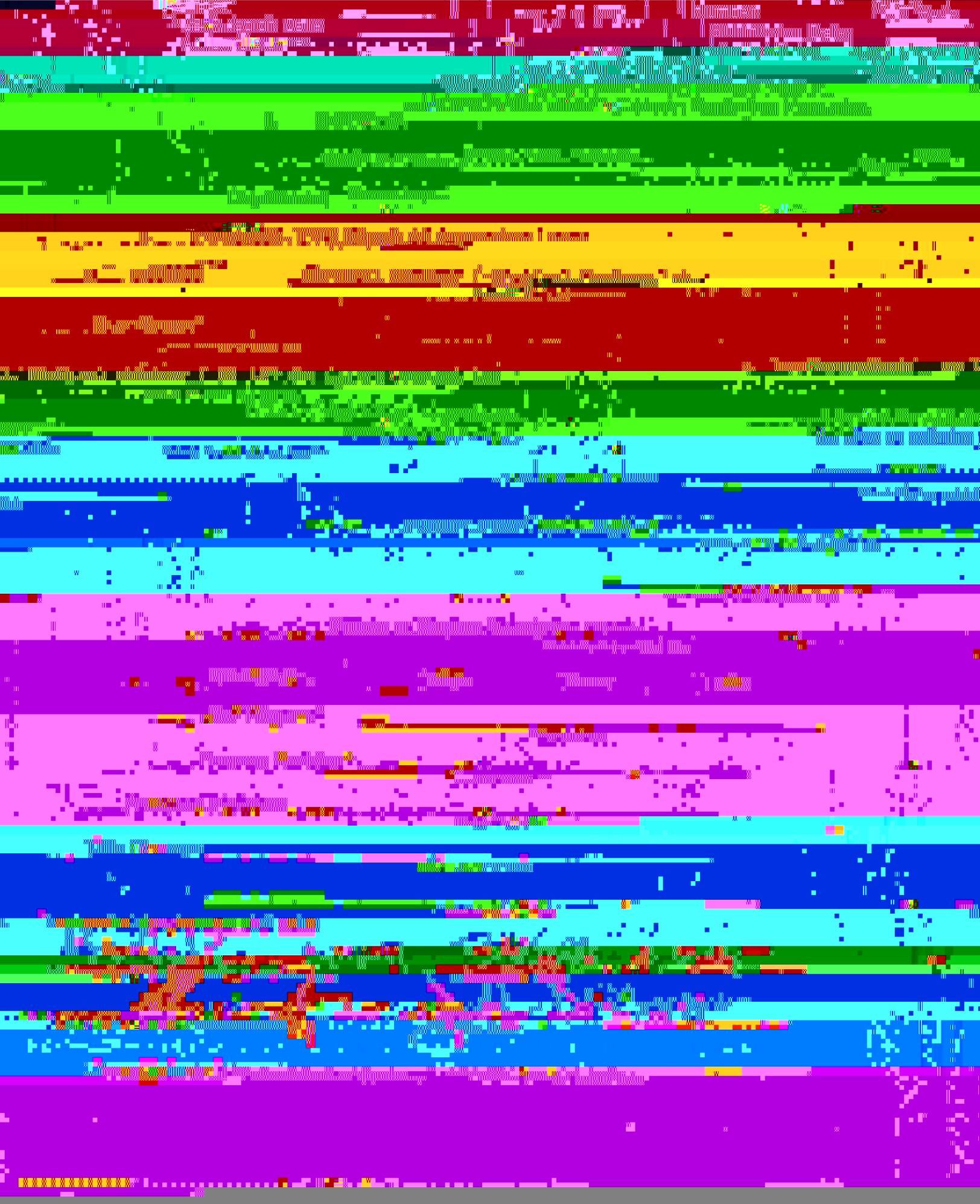


RECEIVED



Introduction:

Course revision: GS 121 Physical Geology: change in course prerequisites, change in catalog description; GS 122 Physical Geology Laboratory: change in course number (was GS 123 Intensive Physical Geology Lab), change in prerequisites, change in catalog description. "old"

GS 122 will be deleted)

Old:

GS 121 Physical Geology

3c-0l-3sh

Prerequisites: none

Introduction to science of the earth: physical properties and processes of the earth's interior and crust and their interaction with surface processes which shape and modify the physical environment.

New:

GS 121 Physical Geology

3c-0l-3sh

Prerequisites: ~~Prerequisite: Geoscience majors/minors, any science or science education~~

2. Summary of revisions: Physical Geology (GS 121) & Physical Geology Lab (GS 122)

OLD COURSESGS 121 Physical Geology LectureGS 122 Physical Geology LabGS 123 Intensive Physical Geology Lab

This introductory geology course served both department majors and Liberal Studies and non-majors by combining them all in one lecture section (GS 121) but separating them into three-hour majors' only lab (GS 123) or

REVISED COURSESGS 121 Physical Geology Lecture

"Old" GS 122 deleted

"Old" GS 123 renumbered to "new" GS 122
Physical Geology Lab

This course sequence will now be restricted to Geoscience majors and minors, and to outside majors who need a specialized in-depth treatment of physical geology. This change allows us to keep up with the changing pace of the field. The bulk of non-major demand will now be met by our

majors and minors for upper-level geology classes.

c. Justification for change in number from "old" GS 123 to "new" GS 122 : we propose to attach the number 122 to our "old" 123 so that Physical Geology Lecture and Lab are numbered sequentially.

PART II DESCRIPTION OF CURRICULUM CHANGE

1. New Syllabi of Record:

GS 121 Physical Geology

I. Catalog Description:

GS 121 Physical Geology

3 credits

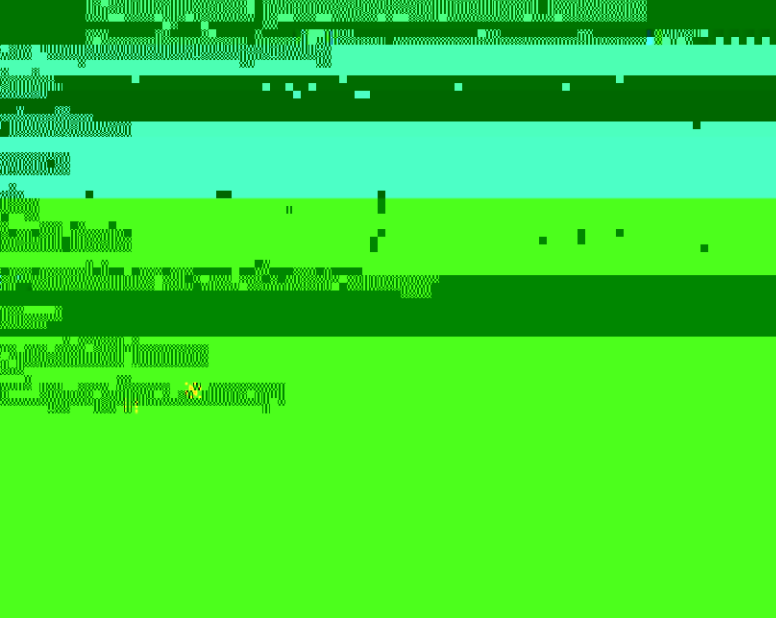
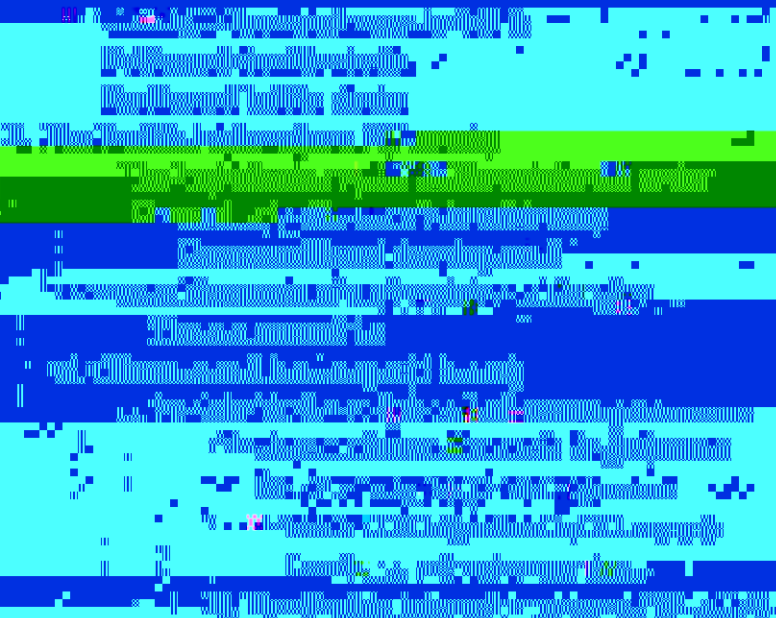
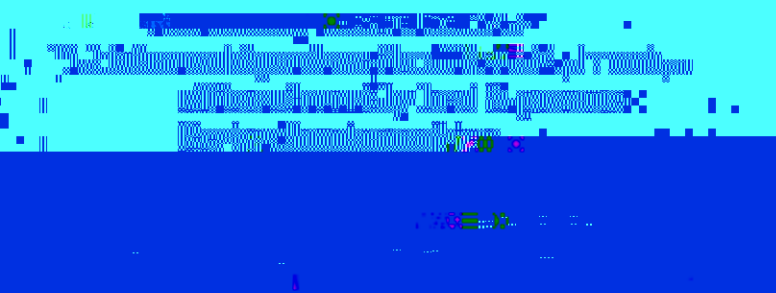
3 lecture hours

(3c-0l-3sh)

Prerequisites: Geoscience majors/minors, any science or science education majors/minors, Anthropology/Geography/Regional Planning majors, or permission of instructor

Introduction to the science of the earth including physical properties of its interior and atmosphere

Minerals made by weathering Sediments and sedimentation processes



IV. Evaluation Methods

Your grade in this course will be calculated from four non-cumulative exams (worth 100

and essay questions. Exam scores will be adjusted to a mean of 75% so that 90-100%=A; 80-89%=B; 70-79%=C; 60-69%=D; and below 60%=F.

Y. Required Texts, Supplies, and Materials

GS 122 Physical Geology Lab

1 credit

3 lab hours

(0c-3l-1sh)

Prerequisites: Geoscience majors/minors, any science or science education majors/minors, Anthropology/Geography/Regional Planning major, or permission of instructor

Selected problems in rock and mineral identification, topographic and geologic mapping techniques, geologic landforms and deformation structures. Designed to prepare students for upper-level geology classes. Includes field trips.

G. Final Exam (1 lab)

IV. Evaluation Methods

Your grade for GS 122 will be determined from an average of eight 10-point quizzes and two 100-point lab exams. Exams will be adjusted to a mean of 75% so that 90-100%=A; 80-89%=B; 70-79%=C; 60-69%=D; and below 60%=F.

V. Required Textbook, Supplemental Book and Readings

IUP Physical Geology Lab Manual. This lab manual was locally developed to take advantage of the unique local geology of the Indiana area. Several nationally published lab manuals were consulted during the development process to ensure quality, parity and relevance to national trends.

VI. Special Resource Requirements: None

VII. Bibliography:

John Wiley 1995 LABORATORY MANUAL FOR PHYSICAL GEOLOGY, Dubuque

Wm. S. Brown Publishers 292 p

McKinney, M.L. and Tolliver, R.L., 1994, CURRENT ISSUES IN GEOLOGY: SELECTED READINGS. New York: West Publishing Company, 254 p.

Plummer, C.C. and McGary, D., 1993, PHYSICAL GEOLOGY (6th ed). Dubuque, William Brown Publishers, 537 p.

Press, F. and Siever, R., EARTH (4th Ed.). New York: W.H. Freeman and Company, 656 p.

Skinner, B.J. and Porter, S.C., 1989, THE DYNAMIC EARTH. New York: John Wiley & Sons, 541 p.

Old syllabi (appended)

PHYSICAL GEOLOGY
GS 121-02A MWF 11:45-12:45

FALL 1994 SYLLABUS

PROFESSOR: KAREN ROSE CERCONE
OFFICE: 112 WALSH HALL
OFFICE HOURS: MF 10:30-11:30; MWF 2:00-3:00 or by appointment
OFFICE PHONE: 357-5623

Text: EARTH by Press & Siever (for all Geoscience Majors)
UNDERSTANDING EARTH by Press & Siever (for non-majors)

Non-text: EARTH by David Brin (science fiction)
(Choose one) CORE by Paul Preuss (science fiction)
BASIN AND RANGE

		EARTH		
Aug	31	Introduction to Physical Geology	Chap 1	Chap 1
Sept	2	Origin of the Earth		
	7	Plate tectonics	(Chap 20)	(Chap 20)
	9	The rock cycle .	Chap 3	Chap 3
	12	Minerals made from molten rock	Chap 2	
	14	Plutons and volcanoes	Chap 4,5	Chap 15, 16
	16	Igneous rocks of the ocean floor		
	19	Igneous rocks from island arcs		
	21	Igneous rocks on continents		
	22	Minerals made by weathering	Chap 6	Chap 5

	26	First Hourly Exam		
	28	Sediments	Chap 7	Chap 12
	30	Sedimentary rocks on land		
Oct	3	Sedimentary rocks along the shore		
	5	Sedimentary rocks in the sea		
	7	Minerals made by heat & pressure	Chap 8	Chap 17
	10	Regional metamorphism		
	12			

FALL 1994

GS 123 Sections 001 & 002
Dr. J. F. Taylor
129 Weyandt

Office Hours
M 9:00-10:00
2:30-4:30
W 9:00-10:00
R 8:30-9:30

<u>Date</u>	<u>Exercise</u>	<u>Topic</u>
Sep 1	1	Mineral Identification / rock formation

15 2+ Classification of silicates

11

**GS 122 - PHYSICAL GEOLOGY LAB
FALL 1994 SYLLABUS**

Professor: Karen Rose Cercone
Office: 112 Walsh Hall
Office Hours: M and F 10:30-11:30; MWF 2:00-3:00 or by appointment
Text: Physical Geology Lab Manual (available at Kinko's)

DATE	TOPIC	LAB CHAPTER
8/31	Introduction	
9/7	Minerals	
9/14	Igneous Rocks	
9/21	Sedimentary Rocks	
9/28	(No class)	
10/5	Metamorphic Rocks	
10/15	REQUIRED SATURDAY FIELD TRIP -- 9:00-5:00	
10/19	Topo Maps	
10/26	Structural Geology	
11/2	Geologic Maps	
11/9	Geomorphology	
11/16	FINAL EXAM	
11/30	(No class)	
12/7	(No class)	

Your grade in this class will be determined by six 10-point quizzes (the lowest of which will be dropped) and two 100-point exams, for a total of 250 possible points. All quizzes and exams will be open-book. Scores from each exam will be corrected to a mean of

Date: March 22, 1995

To: John Butzow, Dean of the College of Education
Curriculum Committee Chair, College of Education

From: Karen Rose Cercone, Geoscience Curriculum Contact

Subject: Proposed Geoscience Course Revisions

I have attached a course revision proposal which affects the GS 101-104 Earth Science course sequence taken by many Secondary Science Education majors. As part of a major overhaul of our introductory classes, the Geoscience Department plans to rename this course sequence Earth Science for Educators I and II and renumber it as GS 111-114. We plan to restrict future enrollment to science education majors only (ie. Earth and Space Science Ed. General

Date: March 22, 1995
To: Dennis Whitson, Chair of the Physics Department
Curriculum Committee Chair, Physics Department
From: Karen Rose Cercone, Geoscience Curriculum Contact
Subject: Proposed Geoscience Course Revisions

I have attached a course revision proposal which affects the GS 101-104 Earth Science course

our introductory classes, the Geoscience Department plans to rename this course sequence Earth Science for Educators I and II and renumber it as GS 111-114. We plan to restrict future enrollment to science education majors only (ie, Earth and Space Science Ed, General Science Ed, Bio Ed, etc), plus any other science majors who are currently required to take Earth Science. The new GS 111-114 Earth Science for Educators will retain the traditional number of credits (3 lecture, 1 lab) but some lecture sections may become writing-intensive

Date: March 22, 1995

To: Pothan Varughese, Chair of the Chemistry Department
Curriculum Committee Chair, Chemistry Department

From: Karen Rose Cercone, Geoscience Curriculum Contact

Subject: Proposed Geoscience Course Revisions

I have attached a course revision proposal which covers GS 111-114. The

sequence taken by your Secondary Science Education majors. As part of a major overhaul of our introductory classes, the Geoscience Department plans to rename this course sequence Earth Science for Educators I and II and renumber it as GS 111-114. We plan to restrict future enrollment to science education majors only (ie, Earth and Space Science Ed, General Science Ed, Bio Ed, etc), plus any other science majors who are currently required to take Earth Science. The new GS 111-114 Earth Science for Educators will retain the traditional number of credits (3 lecture, 1 lab) but some lecture sections may become writing-intensive and all labs will be lengthened to three hours rather than two to allow more rigorous treatment of the material.

Please let me know within the next two weeks if you have any comments or suggestions on this planned revision. If the revision creates any problems for you, please let me know.

Date: March 22, 1995

To: [Redacted] Bob Prezent, Chair of the Biology Department

Curriculum Committee Chair, Biology Department

From: Karen Rose Cercone, Geoscience Curriculum Contact

Subject: Proposed Geoscience Course Revisions

I have attached a course revision proposal which affects the GS 101, 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, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

Date: March 22, 1995

To: Susan Forbes, Chair of the Geography Department

Curriculum Committee Chair, Geography Department

From: Karen Rose Cercone, Geoscience Curriculum Contact

Subject: Proposed Geoscience Course Revisions

I have attached a course revision proposal which affects the GS 121/122 Physical Geology and GS 131/132 Historical Geology course sequence taken by many of your majors. As part of a major overhaul of our introductory classes, the Geoscience Department plans to restrict these two courses to Geology, Geoscience, Earth & Space Science Education, Anthropology and Geography majors only. The new courses will retain the same number of credits (3 lecture, 1 lab) and traditional format of a two semester overview of geology but some of the

Date: March 22, 1995

To: Sarah Neusius, Chair of the Anthropology Department
Curriculum Committee Chair, Anthropology Department

From: Karen Rose Cercone, Geoscience Curriculum Contact

Subject: Proposed Geoscience Course Revisions

I have attached a course revision proposal which affects the GS 121/122 Physical Geology and GS 131/132 Historical Geology course sequence taken by many of your majors. As part

Department of Geography
University of Toronto

Dear Sue,
I received your letter of the 14th and was glad to hear from you. I am sorry that I cannot give you a more definite answer at this time. I am sure that you will understand my position.

Yours truly,
[Signature]

Department of Geography
University of Toronto

Sue Forbes asked
proposal/revisions of

Why this

back to what

[Large block of illegible text, possibly a scan artifact or a very faded page]

Department of Geography

University of Toronto

[Large block of illegible text, possibly a scan artifact or a very faded page]

IUP CHEMISTRY DEPARTMENT

To: Karen Rose Cercone
Geoscience Curriculum Contact

[Handwritten signature]

Date: March 30, 1995

Subject: Geoscience Course Revisions

I have looked through your geoscience course revision
proposal ~~CS 111, 114~~ Earth Science for Education Level II

1. Introduction
 2. Background
 3. Methodology
 4. Results
 5. Discussion
 6. Conclusion
 7. References
 8. Appendix
 9. Index
 10. Summary

The following table shows the results of the experiment. The data indicates a significant increase in the number of participants who completed the task within the allotted time. This suggests that the intervention was effective in improving performance.

The results of the study are consistent with previous research, which has shown that similar interventions lead to improved outcomes. This finding supports the hypothesis that the intervention is a viable approach for addressing the issue.

In conclusion, the study demonstrates the effectiveness of the intervention in enhancing task completion rates. Further research is needed to explore the long-term effects and to identify the underlying mechanisms of the observed improvements.

The authors would like to thank the participants and the research assistants for their contributions to this study. The research was supported by the National Science Foundation.

The following table provides a detailed breakdown of the data presented in the main text. It includes the number of participants in each group and the corresponding performance metrics.

The data shows that the experimental group performed significantly better than the control group. This difference was statistically significant, as indicated by the p-value.

The findings of this study have important implications for the field. They suggest that the intervention can be used as a practical tool to improve performance in similar contexts.

The authors declare no conflict of interest. The data and materials are available upon request.

Department of Anthropology
Indiana University of Pennsylvania
Keith Hall
Indiana, Pennsylvania 15705-1087

(412) 357-2730



April 6, 1995

Dr. Karen R. Cercone
Geography Department

Walsh 112

Dear Dr. Cercone:

We have reviewed your proposal regarding the Physical Geology and Historical