

Mathematics Department

Millersville University

**Master of Education in
Mathematics
(M.Ed.)**

MASTER OF EDUCATION DEGREE IN MATHEMATICS

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1. INTRODUCTION

a. Millersville University

Rated one of the finest regional universities in the country by US News and World Report, Millersville University has a tradition of graduate education that dates back nearly a century. Established in 1855 as the Commonwealth's first normal school, Millersville University is one of the fourteen institutions in the Pennsylvania State System of Higher Education.

A multipurpose university situated on a 250-acre campus, Millersville blends the spirit of innovation with the strength of tradition in academic and professional programs that serve a diverse regional population. The campus reflects a combination of the old and the new, with beautiful Victorian buildings, state-of-the-art research labs and technology centers.

The graduate enrollment includes students from numerous states and several foreign countries. Many graduate students are engaged in or intend to pursue careers in teaching, while others have achieved success in various professions. Millersville University graduates have gone on to doctoral programs in the nation's finest universities. The Graduate Student Association represents the academic and social interests of the graduate student population.

b. The Department

The diverse backgrounds of the faculty in the Department of Mathematics at Millersville University attract candidates for the M.Ed. in Mathematics to gain a broad perspective or to focus on a specific area. Currently presented among the twenty-one fulltime faculty members are mathematics educators, four statisticians, applied mathematicians and pure mathematicians with varying specialties including (but not limited to) graph theory, discrete mathematics, analysis, algebraic topology, operator theory, algebraic geometry and number theory.

c.

include (but are not limited to)

2. THE MASTER of EDUCATION in MATHEMATICS PROGRAM at MILLERSVILLE UNIVERSITY

A. OBJECTIVES

The major strength of the M.Ed. program in Mathematics at Millersville University is the balance of mathematics content and pedagogy. Since undergraduate programs in mathematics education vary greatly, one goal of the M.Ed. is to enhance candidates' mathematical content knowledge. Additionally, the program offers a variety of mathematics education courses that allow graduate students to investigate the nature, teaching, and learning of mathematics to apply this immediately in their own mathematics classrooms.

B. ADMISSION REQUIREMENTS – UNIVERSITY LEVEL

Admission to a graduate program is granted without regard to race, color, national origin, sex, or religious creed, but with regard to ability reflected in a record sufficiently strong to support confidence that the applicant can participate effectively in the graduate community and creditably complete the program of study for which application is made.

ADMISSION TO A MASTER'S DEGREE PROGRAM

Admission decisions are based upon a combination of factors including grade point average, letters of recommendation from those able to critically assess an applicant's ability in a graduate program, a written statement of purpose, standardized test scores, academic preparation for work in the proposed field, the applicant's interests as matched with those of the faculty, where appropriate, a successful interview. (An interview is not required for admission to the M.Ed. in Mathematics Education.)

REGULAR ADMISSION

To be eligible for regular admission, an applicant must have earned a bachelor's degree from an accredited four-year college or university in the United States or equivalent from a similar institution abroad. The applicant must demonstrate, in the opinion of the faculty and the dean of graduate studies, the ability to successfully complete a master's degree, and must have achieved at least a 2.75 undergraduate grade point average in all coursework attempted (unless otherwise specified by the academic program).

PROBATIONAL ADMISSION

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C. ADMISSION REQUIREMENTS – MATHEMATICS DEPARTMENT LEVEL

Admission to the M.Ed. program in mathematics education is granted to those applicants whose mathematical preparation fulfills the mathematical proficiency requirement (see I below). This is usually accomplished through the successful completion of a rigorous course of study culminating in the award of a Bachelor's degree in mathematics. Conditional admission is granted to those applicants who have satisfactorily completed the following MU undergraduate mathematics courses: MATH 161, 211, 311 (Calculus I, II, and III) and MATH 422 (Linear Algebra). Such persons are granted full admission status upon fulfillment of the mathematical proficiency requirement.

D. APPLICATION PROCEDURE

Prospective students may apply electronically by visiting the Millersville website at www.millersville.edu/graduate. Application to be considered complete, the following must also be

F. COURSE OF STUDY

III. Mathematics courses (12 semester hours minimum required)

IV. Mathematics Education Courses (9 semester hours minimum required)

Three (3) of the following:

- MATH 603 Equity Issues in Mathematics Education (3)
- MATH 603 History of Mathematics (3)
- MATH 606 Transitioning to the First Year in a School District (3)
- MATH 607 Moving to Tenure (3)
- MATH 610 Problem Solving Seminar (3)
- MATH 611 Psychology of Learning Mathematics (3)
- MATH 612 Diagnostic and Prescriptive Mathematics (3)
- MATH 614 Current Issues in Middle School Mathematics (3)
- MATH 615 Current Issues in Secondary School Mathematics (3)
- MATH 616 Teaching Advanced Placement (AP) Calculus in Secondary School (3)
- MATH 617 Curricular Innovations in Middle & Secondary School Mathematics (3)
- MATH 618 Assessment in the Mathematics Classroom (3)
- MATH 619 Advanced Perspectives for Teaching High School Mathematics (3)
- MATH 622 Teaching Mathematics in the 21st Century (3)
- MATH 672 Mathematical Modeling in the Secondary School Curriculum (3)
- MATH 679 Using Technology in Secondary School Mathematics (3)
- MATH 690 Topics in Discrete Mathematics for Teachers (3)
- MATH 697 Topics in Mathematics Education (3)
- MATH 698 Independent Study in Mathematics Education (1-3)

NOTE: Students may elect MATH 697 or 698 more than once, provided that the topics are different.

V. Degree Qualifying Review – Degree Candidacy

Degree candidacy will be granted to those students who have completed at least 24 semester hours of course work toward the program with a B or higher, and an overall GPA of 3.0.

VI. Final Options (Select One)

1. Non-Thesis (6 semester hours minimum required) Elect two (2) courses offered by the department at the 510 level or higher. The minimum course requirement for the degree with this option is 36 semester hours.

- o NOTE: MATH 535 may not be double-counted in categories II and VI.

2. Thesis (3 semester hours minimum required)

MATH 699 Thesis

- o NOTE: The minimum course requirement for the M.Ed. in Mathematics Education is 30 semester hours plus thesis (3 or more credits).

VII. Additional Program Requirements

_____ 1. Required Field Experience

Thesis _____; or

Research Project in Math Educ _____.

_____ 2. Required Capstone

Thesis _____; or

Comprehensive Oral Presentation _____.

3. COURSE DESCRIPTIONS – GRADUATE-LEVEL MATHEMATICS COURSES

a. MATHEMATICS COURSES

MATH 502 Linear Algebra for Teachers (4)

Systems of linear equations, matrix algebra, and determinants; real vector spaces, linear independence, basis and dimension; real inner product spaces, Gram-Schmidt orthogonalization; eigen theory and diagonalization; linear transformations and matrix representation.

MATH 503 Probability and Statistics for Teachers (4)

A rigorous one-semester course covering the theory and applications of probability and statistics.

b

Sample of recent offerings of MATH 695:

- o Nonlinear Dynamical Systems (2009)

Dynamical systems model the time evolution of systems. Examples are abundant in physics, biology, and chemistry as well as social sciences. This course will mainly focus on dynamical systems induced by (mostly, nonlinear) ordinary differential equations. We will start with one dimensional problems and move on to the (elegant) theory of two dimensional dynamical systems. Topics covered include phase plane analysis, stability theory, bifurcation analysis, and the Poincaré theory of two dimensional

b. MATHEMATICS EDUCATION COURSES

MATH 602 Equity Issues in Mathematics Education (3)

This course is designed for students with an interest in equity issues in mathematics education. In this course, we examine issues of equity in mathematics education from various theoretical and practical perspectives and along lines of race, gender, culture, and socioeconomic status. This is an intensive reading-course that spans such topics as the achievement gap, tracking, culturally relevant pedagogy, multiculturalism, the nature of mathematics, and mathematics for democracy and social justice. Course assignments primarily involve presentations, discussions, writing, problem solving, and problem posing. Some assignments will be differentiated to ensure they are relevant to the practices of both teachers as well as students without a teaching background that intend to pursue further graduate study. Offered periodically.

MATH 603 History of Mathematics (3)

Evolution of mathematical concepts from antiquity to the present century. Emphasis on eras of great mathematical achievement. Prerequisite: MATH 401 or MATH 402 or MATH 403 or MATH 404 or MATH 405 or MATH 406 or MATH 407 or MATH 408 or MATH 409 or MATH 410 or MATH 411 or MATH 412 or MATH 413 or MATH 414 or MATH 415 or MATH 416 or MATH 417 or MATH 418 or MATH 419 or MATH 420 or MATH 421 or MATH 422 or MATH 423 or MATH 424 or MATH 425 or MATH 426 or MATH 427 or MATH 428 or MATH 429 or MATH 430 or MATH 431 or MATH 432 or MATH 433 or MATH 434 or MATH 435 or MATH 436 or MATH 437 or MATH 438 or MATH 439 or MATH 440 or MATH 441 or MATH 442 or MATH 443 or MATH 444 or MATH 445 or MATH 446 or MATH 447 or MATH 448 or MATH 449 or MATH 450 or MATH 451 or MATH 452 or MATH 453 or MATH 454 or MATH 455 or MATH 456 or MATH 457 or MATH 458 or MATH 459 or MATH 460 or MATH 461 or MATH 462 or MATH 463 or MATH 464 or MATH 465 or MATH 466 or MATH 467 or MATH 468 or MATH 469 or MATH 470 or MATH 471 or MATH 472 or MATH 473 or MATH 474 or MATH 475 or MATH 476 or MATH 477 or MATH 478 or MATH 479 or MATH 480 or MATH 481 or MATH 482 or MATH 483 or MATH 484 or MATH 485 or MATH 486 or MATH 487 or MATH 488 or MATH 489 or MATH 490 or MATH 491 or MATH 492 or MATH 493 or MATH 494 or MATH 495 or MATH 496 or MATH 497 or MATH 498 or MATH 499 or MATH 500 or MATH 501 or MATH 502 or MATH 503 or MATH 504 or MATH 505 or MATH 506 or MATH 507 or MATH 508 or MATH 509 or MATH 510 or MATH 511 or MATH 512 or MATH 513 or MATH 514 or MATH 515 or MATH 516 or MATH 517 or MATH 518 or MATH 519 or MATH 520 or MATH 521 or MATH 522 or MATH 523 or MATH 524 or MATH 525 or MATH 526 or MATH 527 or MATH 528 or MATH 529 or MATH 530 or MATH 531 or MATH 532 or MATH 533 or MATH 534 or MATH 535 or MATH 536 or MATH 537 or MATH 538 or MATH 539 or MATH 540 or MATH 541 or MATH 542 or MATH 543 or MATH 544 or MATH 545 or MATH 546 or MATH 547 or MATH 548 or MATH 549 or MATH 550 or MATH 551 or MATH 552 or MATH 553 or MATH 554 or MATH 555 or MATH 556 or MATH 557 or MATH 558 or MATH 559 or MATH 560 or MATH 561 or MATH 562 or MATH 563 or MATH 564 or MATH 565 or MATH 566 or MATH 567 or MATH 568 or MATH 569 or MATH 570 or MATH 571 or MATH 572 or MATH 573 or MATH 574 or MATH 575 or MATH 576 or MATH 577 or MATH 578 or MATH 579 or MATH 580 or MATH 581 or MATH 582 or MATH 583 or MATH 584 or MATH 585 or MATH 586 or MATH 587 or MATH 588 or MATH 589 or MATH 590 or MATH 591 or MATH 592 or MATH 593 or MATH 594 or MATH 595 or MATH 596 or MATH 597 or MATH 598 or MATH 599 or MATH 600 or MATH 601 or MATH 602 or MATH 603 or MATH 604 or MATH 605 or MATH 606 or MATH 607 or MATH 608 or MATH 609 or MATH 610 or MATH 611 or MATH 612 or MATH 613 or MATH 614 or MATH 615 or MATH 616 or MATH 617 or MATH 618 or MATH 619 or MATH 620 or MATH 621 or MATH 622 or MATH 623 or MATH 624 or MATH 625 or MATH 626 or MATH 627 or MATH 628 or MATH 629 or MATH 630 or MATH 631 or MATH 632 or MATH 633 or MATH 634 or MATH 635 or MATH 636 or MATH 637 or MATH 638 or MATH 639 or MATH 640 or MATH 641 or MATH 642 or MATH 643 or MATH 644 or MATH 645 or MATH 646 or MATH 647 or MATH 648 or MATH 649 or MATH 650 or MATH 651 or MATH 652 or MATH 653 or MATH 654 or MATH 655 or MATH 656 or MATH 657 or MATH 658 or MATH 659 or MATH 660 or MATH 661 or MATH 662 or MATH 663 or MATH 664 or MATH 665 or MATH 666 or MATH 667 or MATH 668 or MATH 669 or MATH 670 or MATH 671 or MATH 672 or MATH 673 or MATH 674 or MATH 675 or MATH 676 or MATH 677 or MATH 678 or MATH 679 or MATH 680 or MATH 681 or MATH 682 or MATH 683 or MATH 684 or MATH 685 or MATH 686 or MATH 687 or MATH 688 or MATH 689 or MATH 690 or MATH 691 or MATH 692 or MATH 693 or MATH 694 or MATH 695 or MATH 696 or MATH 697 or MATH 698 or MATH 699 or MATH 700 or MATH 701 or MATH 702 or MATH 703 or MATH 704 or MATH 705 or MATH 706 or MATH 707 or MATH 708 or MATH 709 or MATH 710 or MATH 711 or MATH 712 or MATH 713 or MATH 714 or MATH 715 or MATH 716 or MATH 717 or MATH 718 or MATH 719 or MATH 720 or MATH 721 or MATH 722 or MATH 723 or MATH 724 or MATH 725 or MATH 726 or MATH 727 or MATH 728 or MATH 729 or MATH 730 or MATH 731 or MATH 732 or MATH 733 or MATH 734 or MATH 735 or MATH 736 or MATH 737 or MATH 738 or MATH 739 or MATH 740 or MATH 741 or MATH 742 or MATH 743 or MATH 744 or MATH 745 or MATH 746 or MATH 747 or MATH 748 or MATH 749 or MATH 750 or MATH 751 or MATH 752 or MATH 753 or MATH 754 or MATH 755 or MATH 756 or MATH 757 or MATH 758 or MATH 759 or MATH 760 or MATH 761 or MATH 762 or MATH 763 or MATH 764 or MATH 765 or MATH 766 or MATH 767 or MATH 768 or MATH 769 or MATH 770 or MATH 771 or MATH 772 or MATH 773 or MATH 774 or MATH 775 or MATH 776 or MATH 777 or MATH 778 or MATH 779 or MATH 780 or MATH 781 or MATH 782 or MATH 783 or MATH 784 or MATH 785 or MATH 786 or MATH 787 or MATH 788 or MATH 789 or MATH 790 or MATH 791 or MATH 792 or MATH 793 or MATH 794 or MATH 795 or MATH 796 or MATH 797 or MATH 798 or MATH 799 or MATH 800 or MATH 801 or MATH 802 or MATH 803 or MATH 804 or MATH 805 or MATH 806 or MATH 807 or MATH 808 or MATH 809 or MATH 810 or MATH 811 or MATH 812 or MATH 813 or MATH 814 or MATH 815 or MATH 816 or MATH 817 or MATH 818 or MATH 819 or MATH 820 or MATH 821 or MATH 822 or MATH 823 or MATH 824 or MATH 825 or MATH 826 or MATH 827 or MATH 828 or MATH 829 or MATH 830 or MATH 831 or MATH 832 or MATH 833 or MATH 834 or MATH 835 or MATH 836 or MATH 837 or MATH 838 or MATH 839 or MATH 840 or MATH 841 or MATH 842 or MATH 843 or MATH 844 or MATH 845 or MATH 846 or MATH 847 or MATH 848 or MATH 849 or MATH 850 or MATH 851 or MATH 852 or MATH 853 or MATH 854 or MATH 855 or MATH 856 or MATH 857 or MATH 858 or MATH 859 or MATH 860 or MATH 861 or MATH 862 or MATH 863 or MATH 864 or MATH 865 or MATH 866 or MATH 867 or MATH 868 or MATH 869 or MATH 870 or MATH 871 or MATH 872 or MATH 873 or MATH 874 or MATH 875 or MATH 876 or MATH 877 or MATH 878 or MATH 879 or MATH 880 or MATH 881 or MATH 882 or MATH 883 or MATH 884 or MATH 885 or MATH 886 or MATH 887 or MATH 888 or MATH 889 or MATH 890 or MATH 891 or MATH 892 or MATH 893 or MATH 894 or MATH 895 or MATH 896 or MATH 897 or MATH 898 or MATH 899 or MATH 900 or MATH 901 or MATH 902 or MATH 903 or MATH 904 or MATH 905 or MATH 906 or MATH 907 or MATH 908 or MATH 909 or MATH 910 or MATH 911 or MATH 912 or MATH 913 or MATH 914 or MATH 915 or MATH 916 or MATH 917 or MATH 918 or MATH 919 or MATH 920 or MATH 921 or MATH 922 or MATH 923 or MATH 924 or MATH 925 or MATH 926 or MATH 927 or MATH 928 or MATH 929 or MATH 930 or MATH 931 or MATH 932 or MATH 933 or MATH 934 or MATH 935 or MATH 936 or MATH 937 or MATH 938 or MATH 939 or MATH 940 or MATH 941 or MATH 942 or MATH 943 or MATH 944 or MATH 945 or MATH 946 or MATH 947 or MATH 948 or MATH 949 or MATH 950 or MATH 951 or MATH 952 or MATH 953 or MATH 954 or MATH 955 or MATH 956 or MATH 957 or MATH 958 or MATH 959 or MATH 960 or MATH 961 or MATH 962 or MATH 963 or MATH 964 or MATH 965 or MATH 966 or MATH 967 or MATH 968 or MATH 969 or MATH 970 or MATH 971 or MATH 972 or MATH 973 or MATH 974 or MATH 975 or MATH 976 or MATH 977 or MATH 978 or MATH 979 or MATH 980 or MATH 981 or MATH 982 or MATH 983 or MATH 984 or MATH 985 or MATH 986 or MATH 987 or MATH 988 or MATH 989 or MATH 990 or MATH 991 or MATH 992 or MATH 993 or MATH 994 or MATH 995 or MATH 996 or MATH 997 or MATH 998 or MATH 999 or MATH 1000.

4. SAMPLE PROGRAMS

Most students enrolled in the Master of Education in Mathematics Program at Millersville University complete the majority of their coursework during the summer months. Currently, there are three summer sessions. Two or three graduate courses in mathematics or mathematics education are typically offered during each of the sessions 2 and 3. The two outlines below indicate how one can complete the program over three consecutive summers. Graduate courses are offered periodically in the evening during Fall and Spring semesters allowing additional flexibility. Upon acceptance to the program, students are encouraged to sketch out a plan of study with their advisor.

Full-time Summer (3 years) – Non-thesis Option, 36 credits (proficiencies met on entry)

Year 1

Summer 2

MATH 502

EDFN 601 (MATH 535)

Summer 3

MATH 505

MATH 645

Year 2

Summer 2

MATH 670

EDFN 604

Summer 3

MATH 603

PSYC 525

Year 3

Summer 2

MATH 610

MATH 672

Summer 3

MATH 611

MATH 693

Full-time Summer (3 years) – Thesis Option, 30 credits (proficiencies met on entry)

Year 1

Summer 2

MATH 505

EDFN 601

Summer 3

MATH 592

MATH 645

Year 2

Summer 2

MATH 675

EDFN 511

Summer 3

MATH 616

EDFN 545

Thesis planning

Year 3

Summer 2

MATH 679

MATH 615

Summer 3

MATH 699 (Thesis credits)

Masters of Education in Mathematics (M.Ed.)

Major Sequence and Degree Requirements

Requirements: minimum 33 -36 semester hours

<p>I. Required Mathematics Proficiency</p> <p>Demonstrated mathematical proficiency is required for the degree. Students who enter the program having earned at least a B- in the following undergraduate courses (or their equivalent) are considered to have met this requirement:</p> <ul style="list-style-type: none"> x _____ MATH 333 Introduction to Probability and Statistics x _____ MATH 322 Linear Algebra I x _____ MATH 345 Abstract Algebra I x _____ MATH 464 Real Analysis I <li style="padding-left: 20px;">and x _____ MATH 353 Survey of Geometry <li style="padding-left: 20px;">or x _____ MATH 355 Transformational Geometry 	<p>IV. Mathematics Education Courses (minimum 3 courses)</p> <p>MATH _____.</p> <p>MATH _____.</p> <p>MATH _____.</p> <p>NOTE:</p> <ul style="list-style-type: none"> x Students may elect MATH 697 or 698 more than once, provided that the topics are different.
<p>II. Professional Core (3 courses)</p> <p>1. _____ EDFN 601 or _____ MATH 535</p> <p style="padding-left: 40px;">and</p> <p>2. PSYC _____ or EDFN _____</p> <p style="padding-left: 40px;">and</p> <p>3. EDFN _____.</p>	<p>V. Degree Qualifying Review</p> <p>Degree candidacy will be granted to those students who have fulfilled the mathematical proficiency requirement and have completed at least 24 semester hours of course work at the 510 level or higher with grades of A, B, including one course from each of categories above.</p>
<p>III. Mathematics courses (minimum 4 courses)</p> <p><u>At least 6 s.h. numbered 510 or higher:</u></p> <p>MATH _____.</p> <p>MATH _____.</p> <p>MATH _____.</p> <p>MATH _____.</p> <p>NOTES:</p> <ul style="list-style-type: none"> x MATH 535 may not be double-counted under blocks II, III, or VII. x Credits earned in 50X-numbered courses may be applied in block III provided the student earns a grade of A or B. x Students may elect MATH 695 or 696 more than once, provided that the topics are different. 	<p>VI. Final Options (Select One)</p> <p>_____ Option 1. NonThesis 6 semester hours (minimum required)</p> <p>MATH _____.</p> <p>MATH _____.</p> <p>_____ Option 2. Thesis 3 semester hours (minimum required)</p> <p>_____ MATH 699 Thesis</p>
<p>VII. Additional Program Requirements</p> <p>_____ 1. <u>Required Field Experience</u></p> <p style="padding-left: 40px;">Thesis _____; or</p> <p style="padding-left: 40px;">Research Project in Math Educ _____.</p> <p>_____ 2. <u>Required Capstone</u></p> <p style="padding-left: 40px;">Thesis _____; or</p> <p style="padding-left: 40px;">Comprehensive Oral Presentation _____.</p>	<p>VII. Additional Program Requirements</p> <p>_____ 1. <u>Required Field Experience</u></p> <p style="padding-left: 40px;">Thesis _____; or</p> <p style="padding-left: 40px;">Research Project in Math Educ _____.</p> <p>_____ 2. <u>Required Capstone</u></p> <p style="padding-left: 40px;">Thesis _____; or</p> <p style="padding-left: 40px;">Comprehensive Oral Presentation _____.</p>

Courses Satisfying Requirements

I. Required Mathematics Proficiency

Demonstrated mathematical proficiency is required for the degree. Students who enter the program having earned a grade of A or B in the following undergraduate courses (or their equivalent) are considered to have met this requirement:

x

6. GRADUATE FACULTY

Schultz, Delray J. (Department Chairperson).

Ph.D., Temple University, 1992. Statistics, Operations Research.

White, Janet A. (Assistant Department Chairperson).

Ph.D., American University, 2002. Mathematics Education.

Washington, Tyrone (Graduate Program Coordinator)

Ph.D., North Carolina State University, 2012. Mathematics Education.

Blum, Dorothee J. Ph.D., Virginia Polytechnic Institute and State University, 1982.

Discrete Mathematics, Graph Theory, Combinatorics

Buchanan, J. Robert. Ph.D., North Carolina State University, 1993. Applied Mathematics.

Cardwell, Antonia E. Ph.D., Kent State University, 2005. Analysis

Catepillán, Ximena. Ph.D., University of Iowa, 1991. Operator Theory

Fenwick, James W. Ph.D., University of Wyoming, 1985. Statistics.

Han, Zhigang. Ph.D., Stony Brook University, 2006. Geometry, Topology

Heitmann, Noel F. Ph.D., University of Pittsburgh, 2003. Applied Mathematics.

Ikenaga, Bruce M. Ph.D., Cornell University, 1982. Algebra.

Ma Baoling. Ph.D., University of Louisiana at Lafayette 2012, Applied Mathematics.

Moss, Erin R. Ph.D., Purdue University, 2009. Mathematics Education.

Robinson, Kevin S. Ph.D., University of Florida, 2000 Applied/Industrial Statistics

Sen, Elizabeth. Ph.D., University of North Carolina-Chapel Hill, 2007. Algebraic Geometry.

Shao, Zhoud. Ph.D., University of Minnesota, 1994. Applied Mathematics.

Shoemaker, Lewis H. Ph.D., Pennsylvania State University, 1986. Statistics

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